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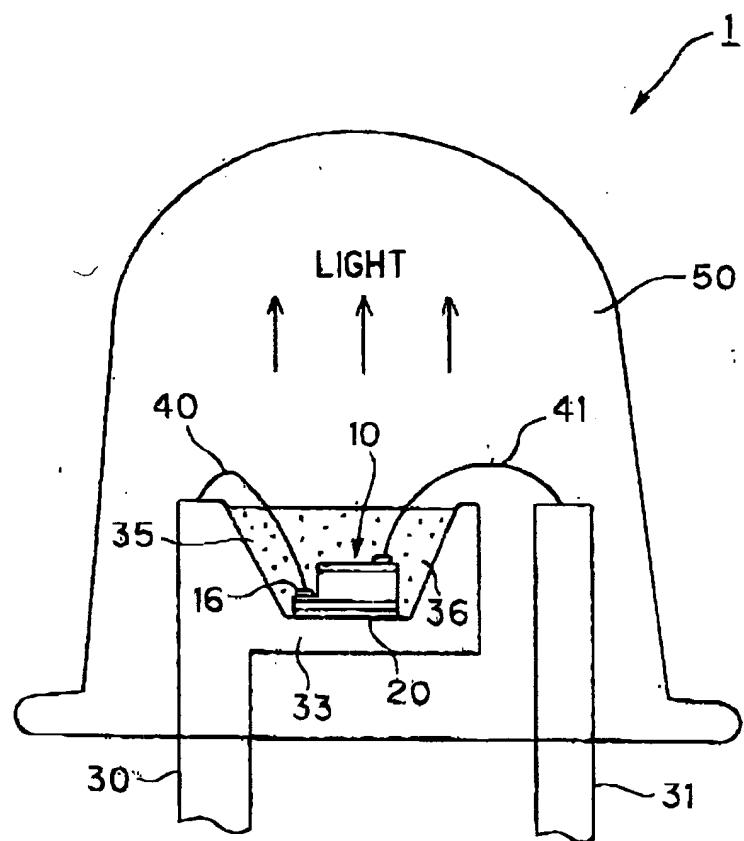
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FIG. 1



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FIG. 2

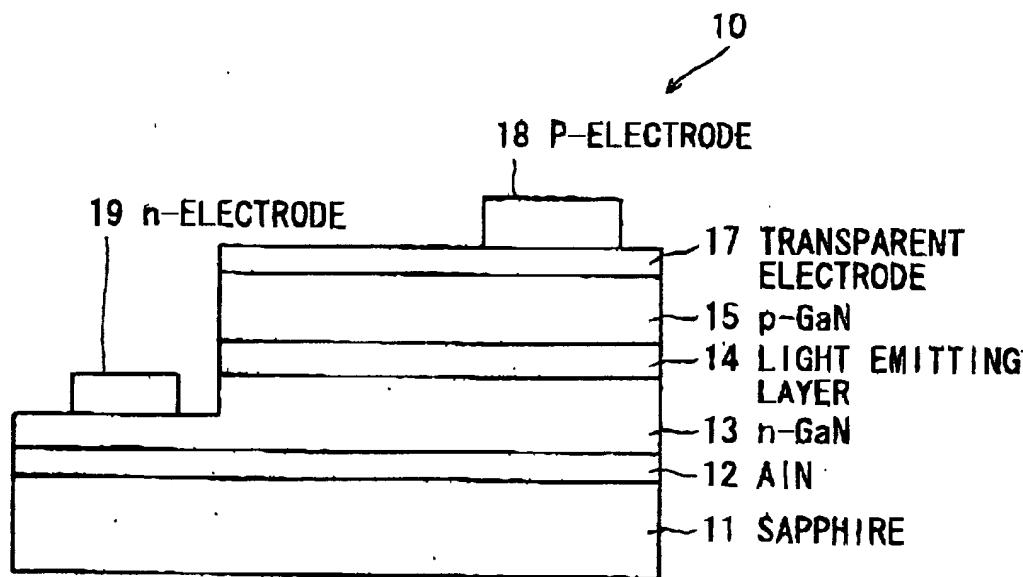
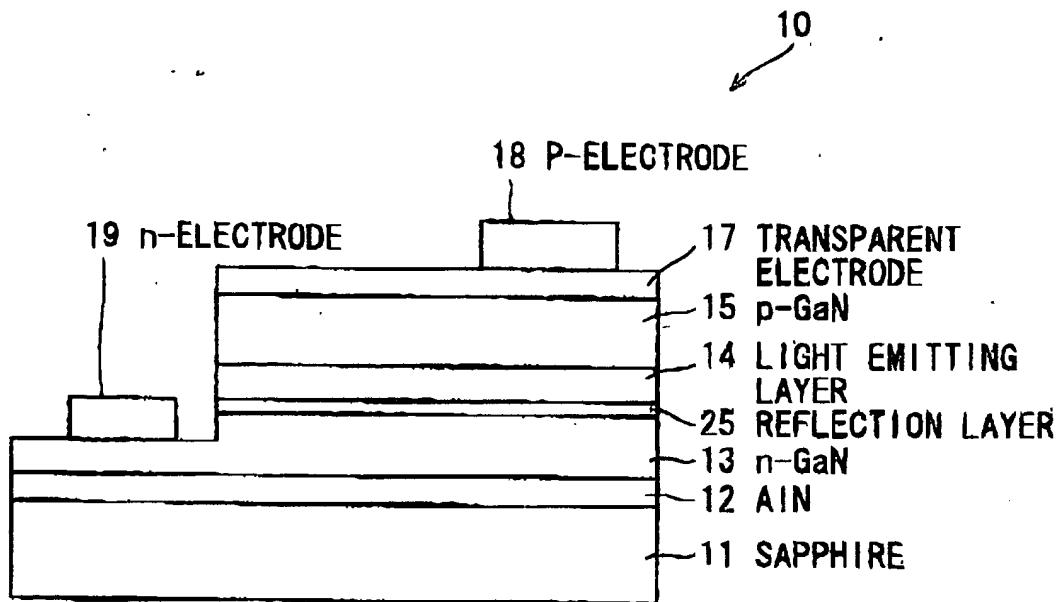


FIG. 3



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FIG. 4

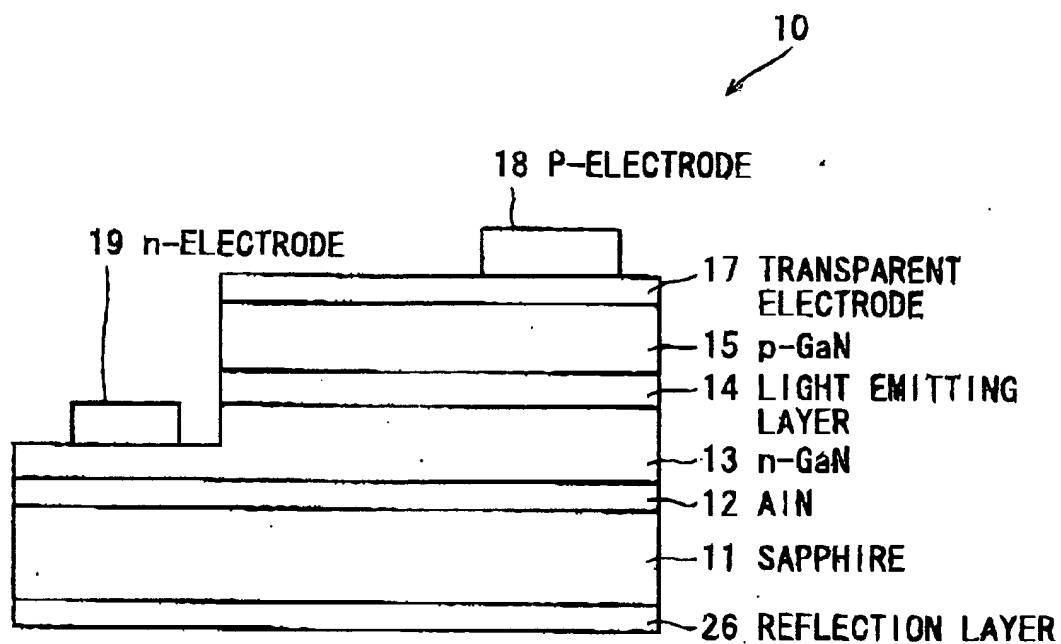
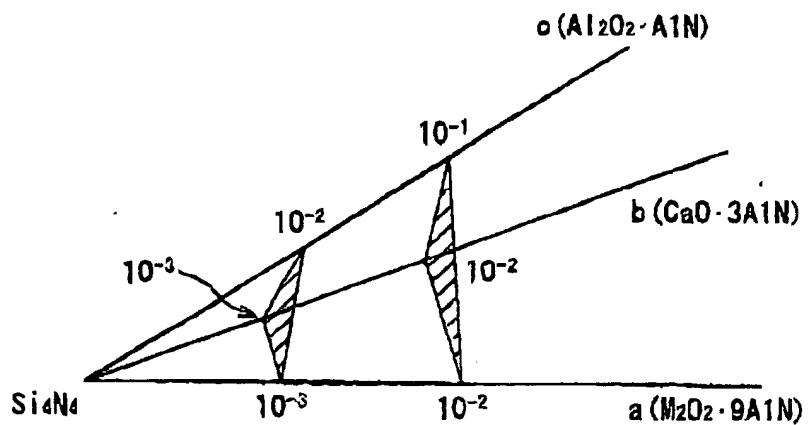
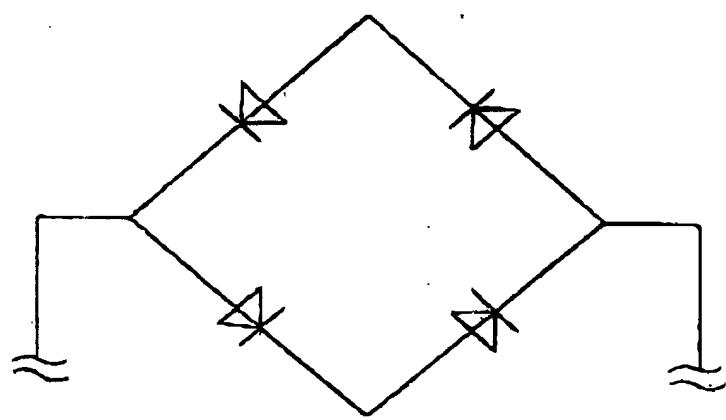
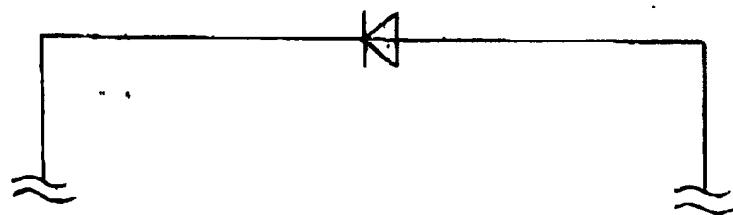


FIG. 5



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FIG. 6A**FIG. 6B**

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FIG. 7A

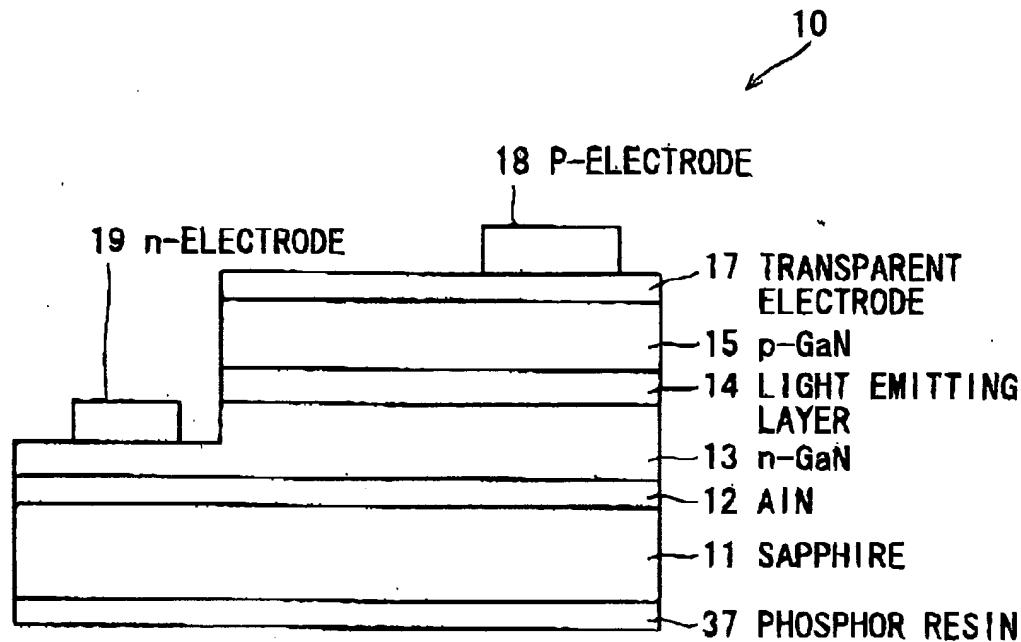
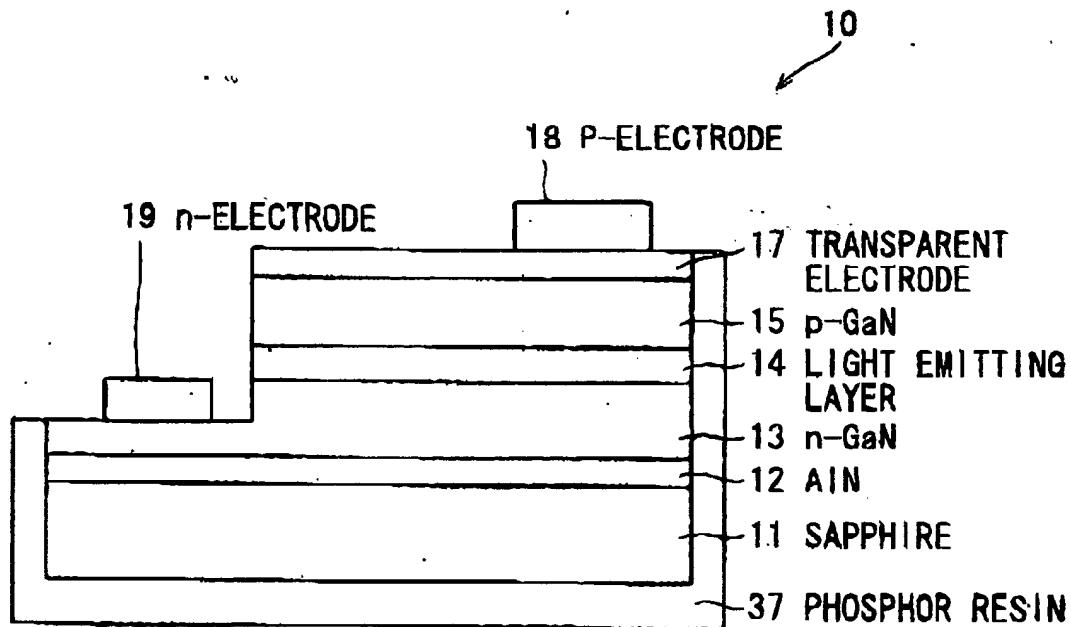
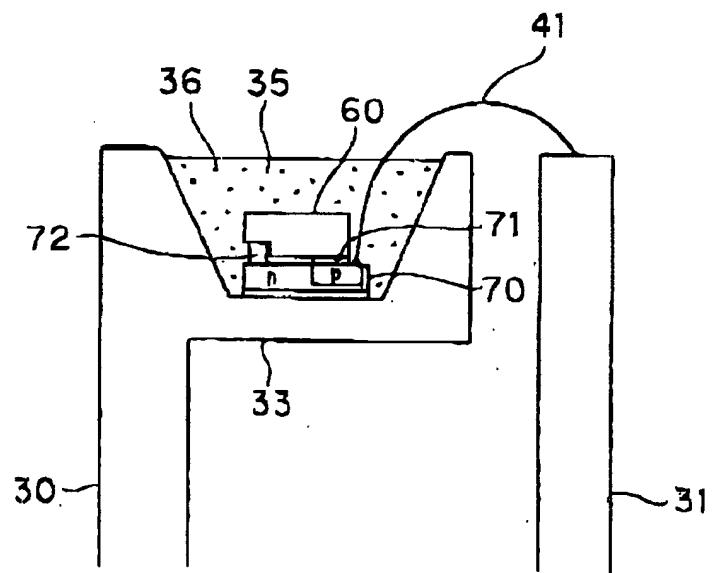


FIG. 7B

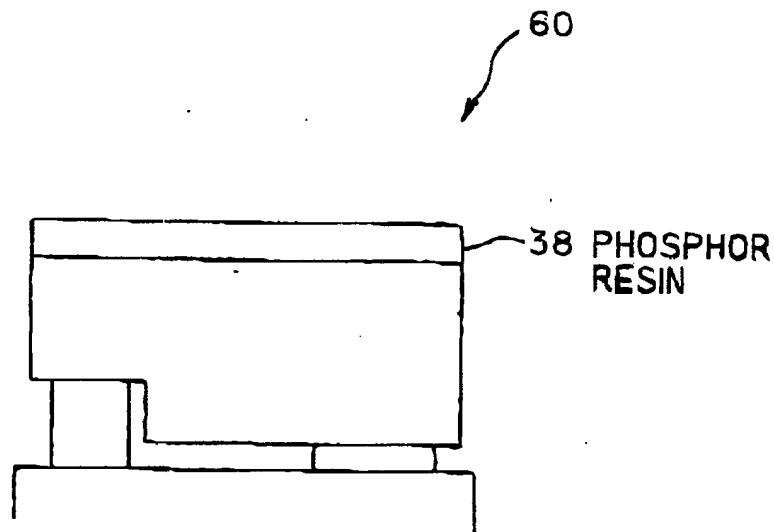
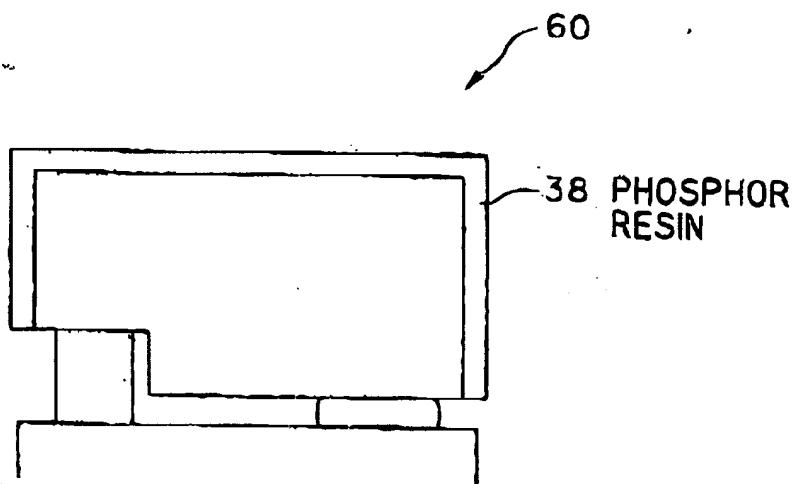


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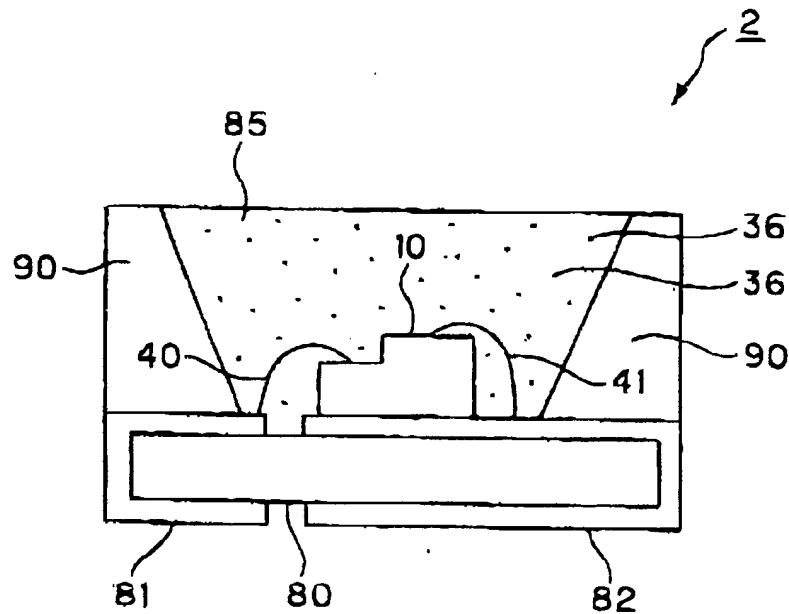
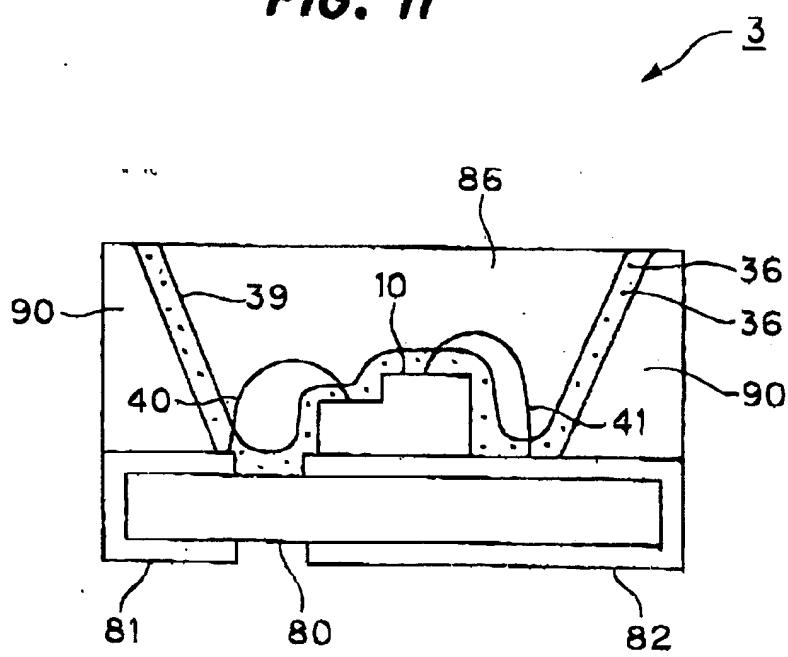
FIG. 8



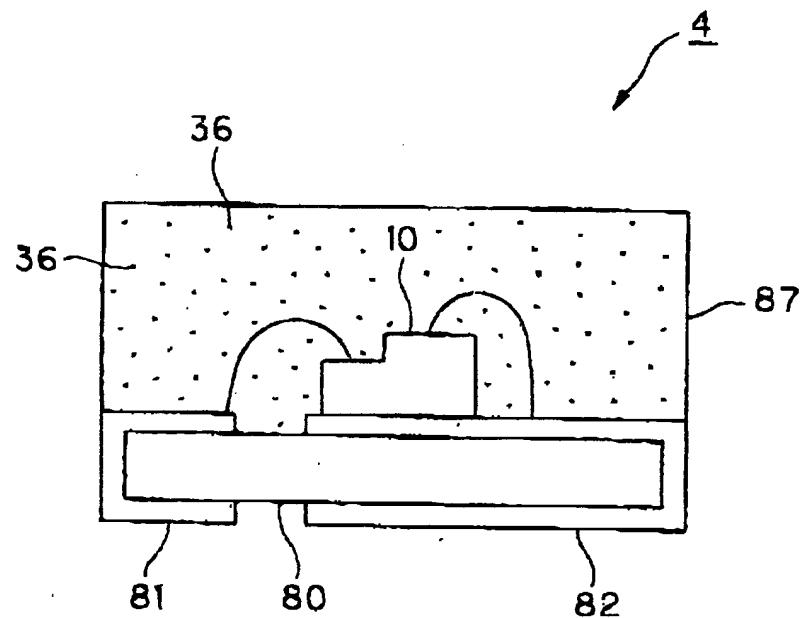
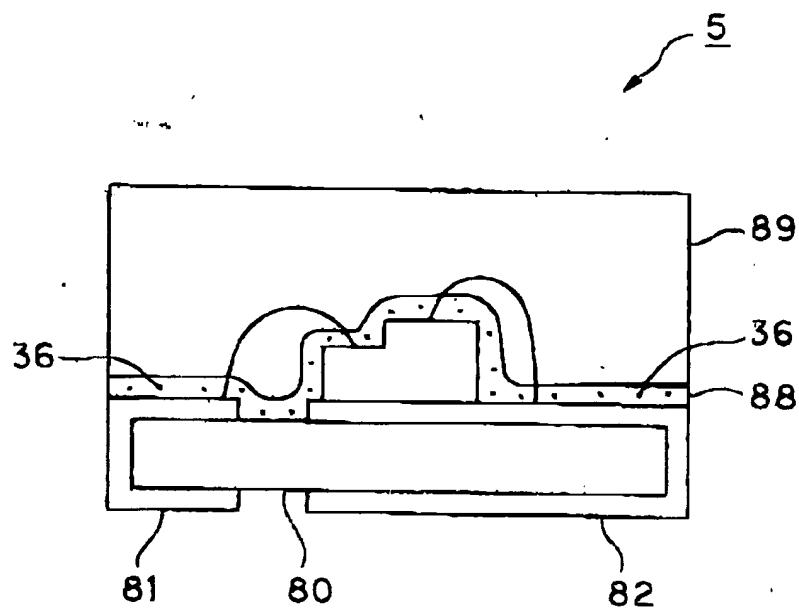
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FIG. 9A**FIG. 9B**

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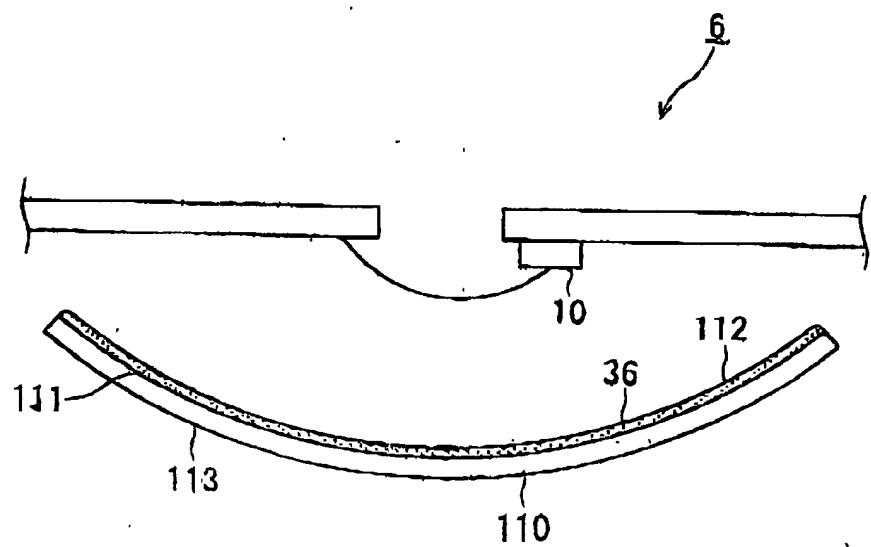
FIG. 10**FIG. 11**

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FIG. 12**FIG. 13**

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FIG. 14



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FIG. 15A

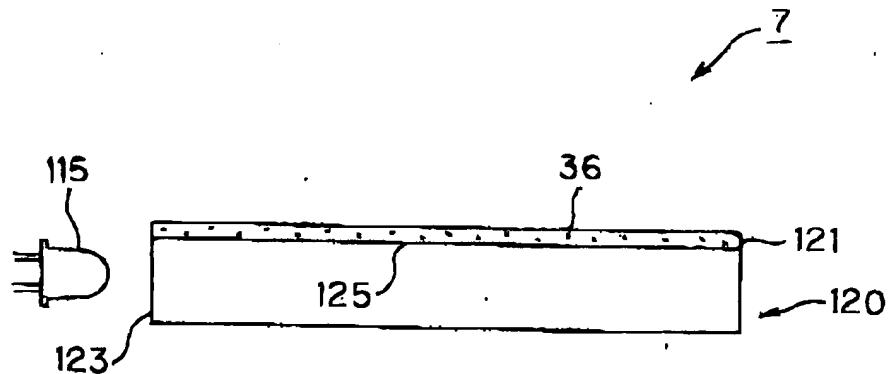
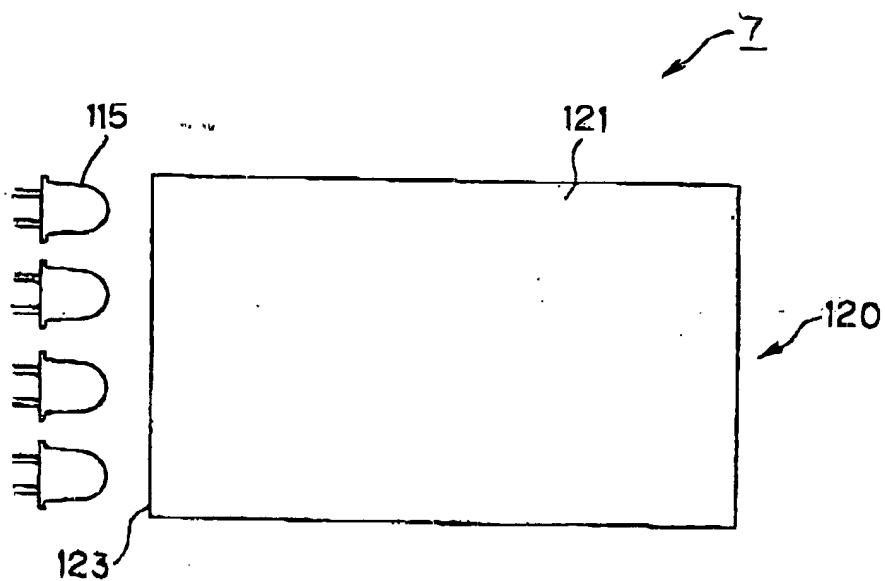
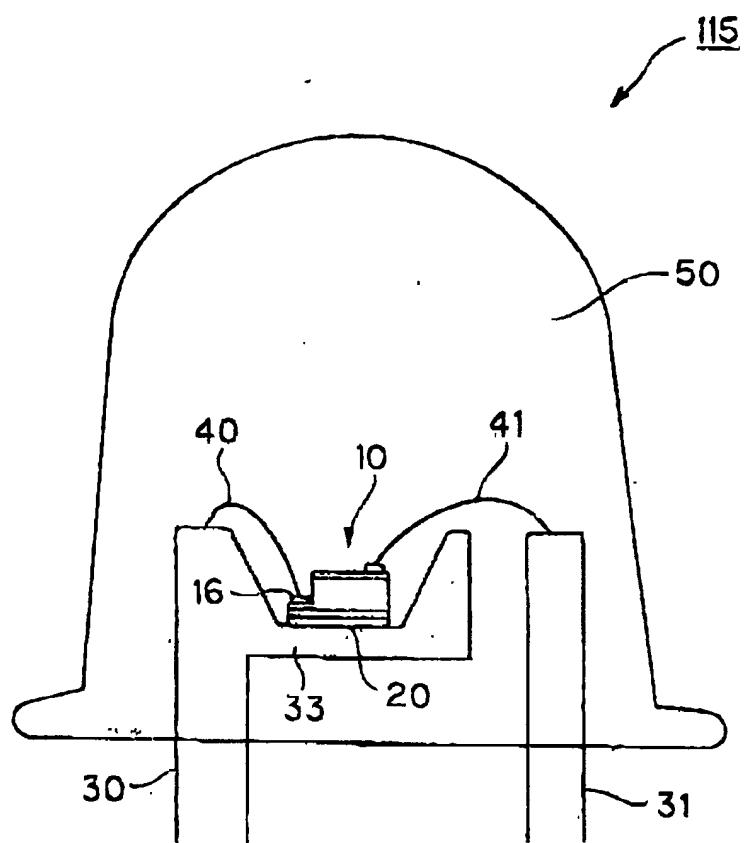


FIG. 15B



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FIG. 16



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FIG. 17A

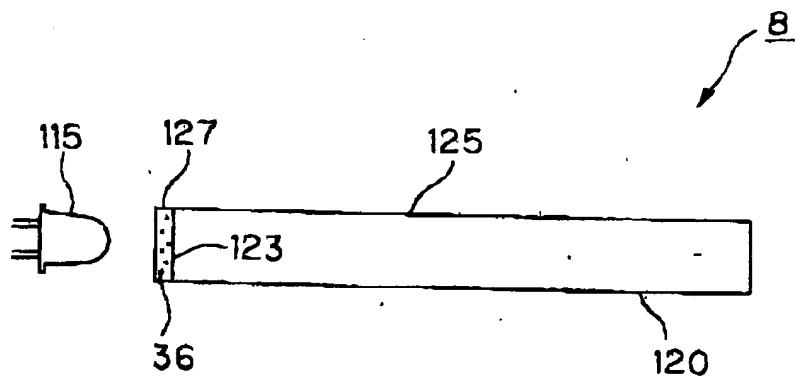
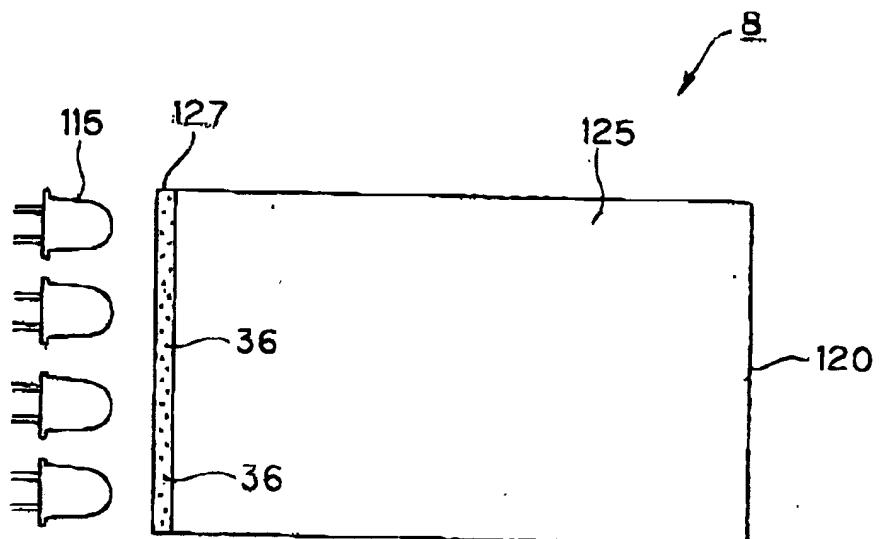


FIG. 17B



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FIG. 18

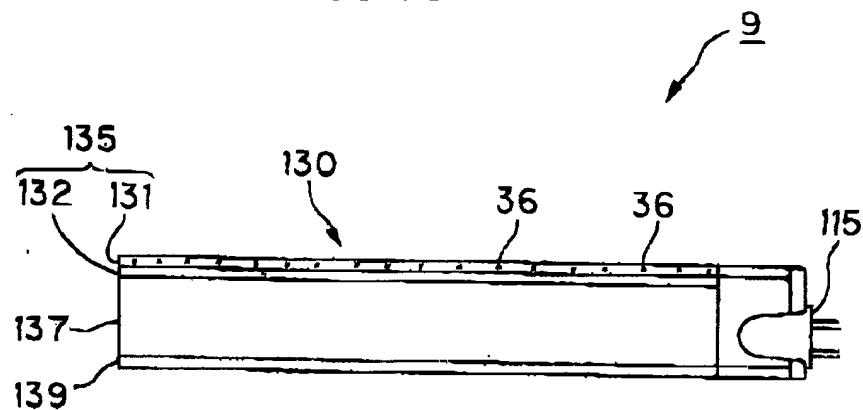
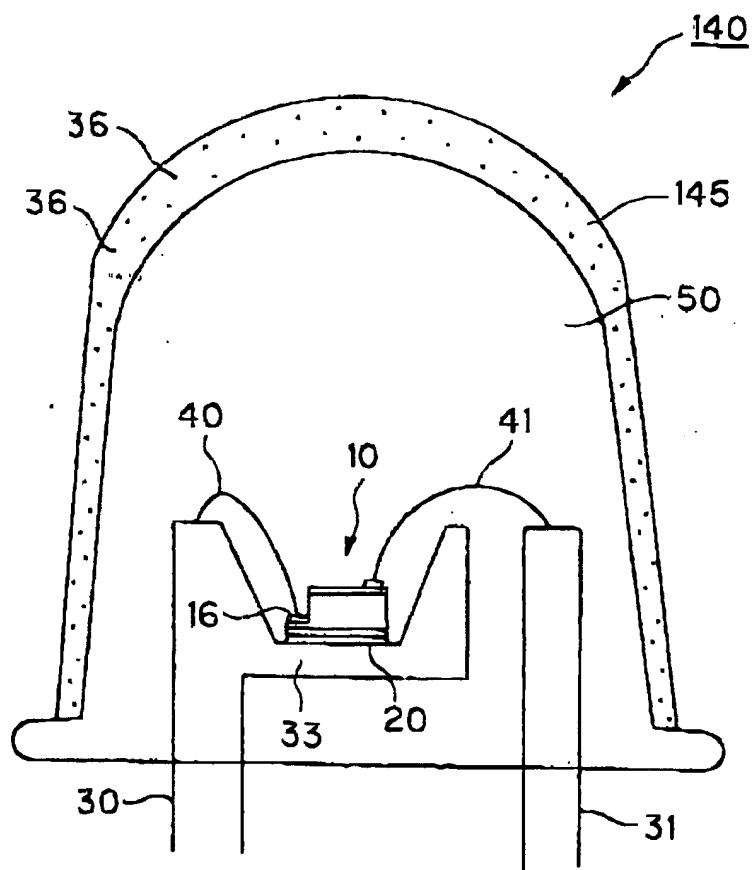


FIG. 19



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FIG. 20

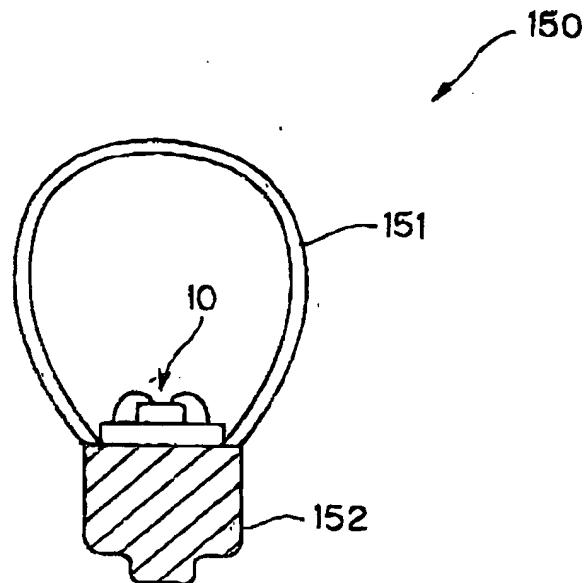
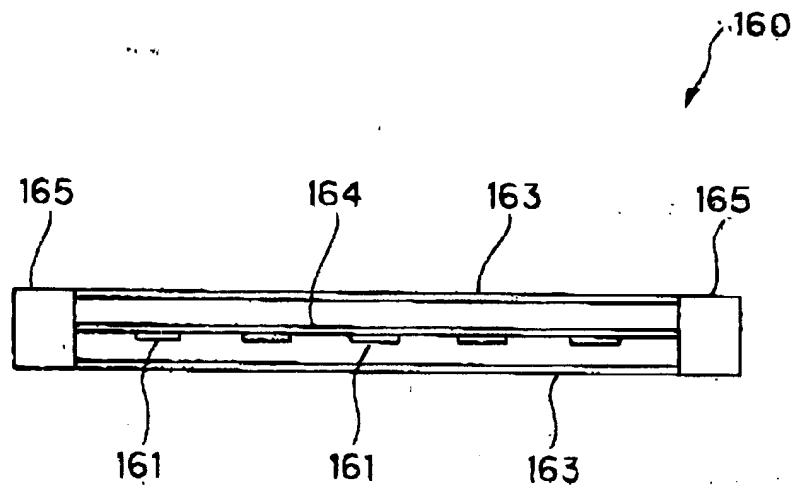
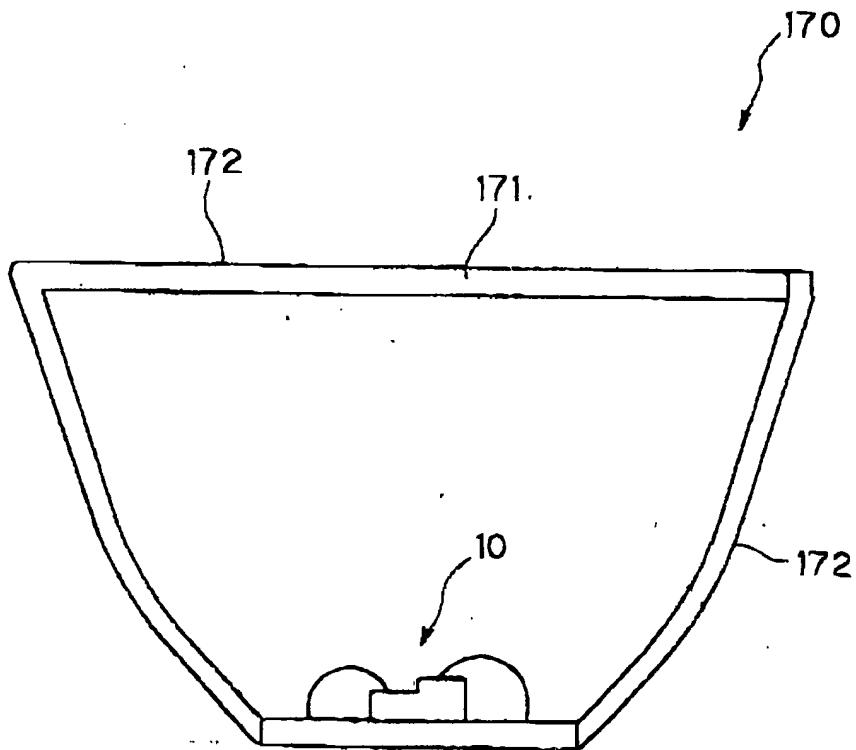


FIG. 21



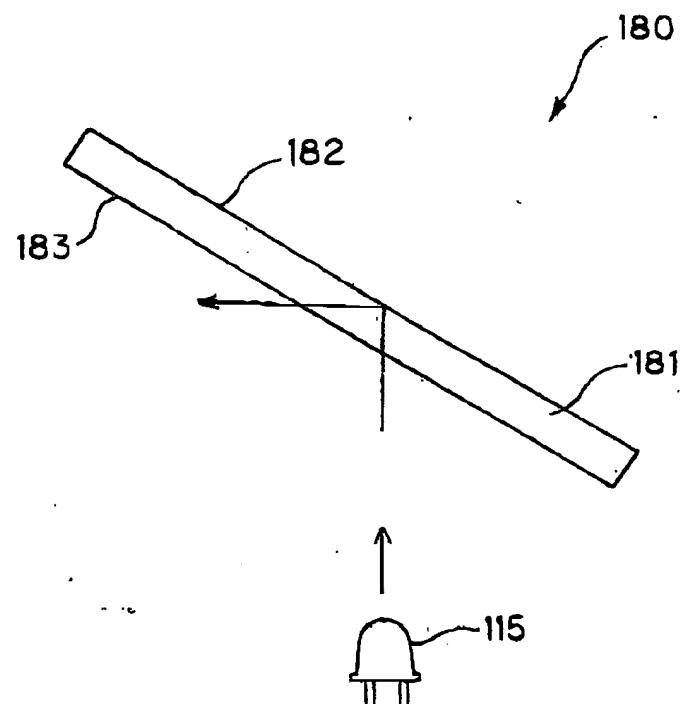
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FIG. 22



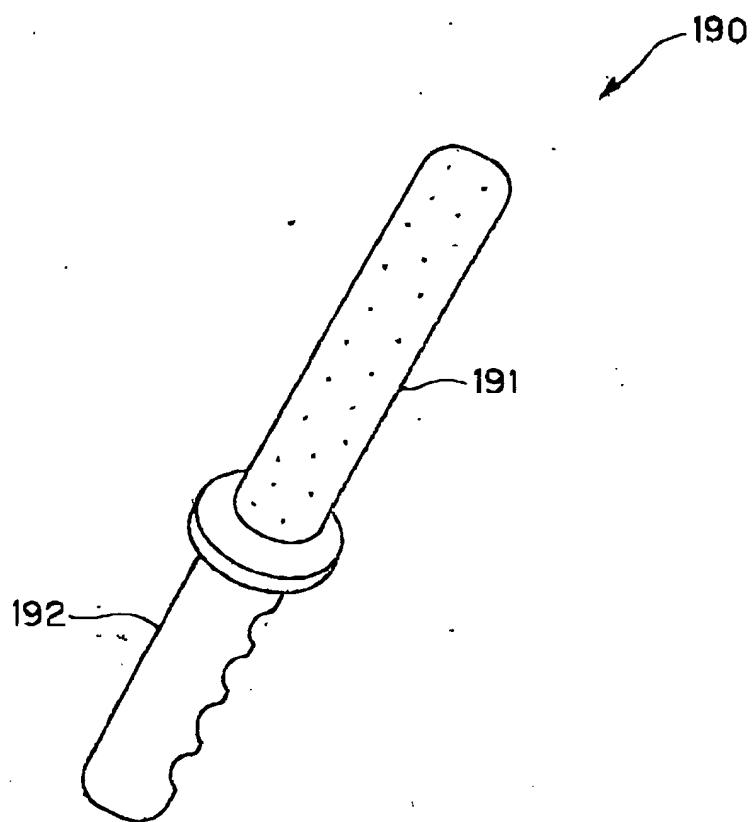
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FIG. 23

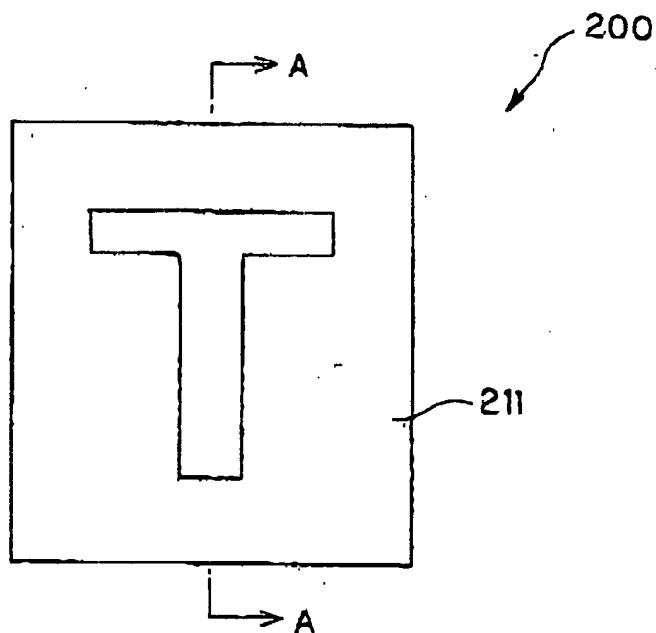
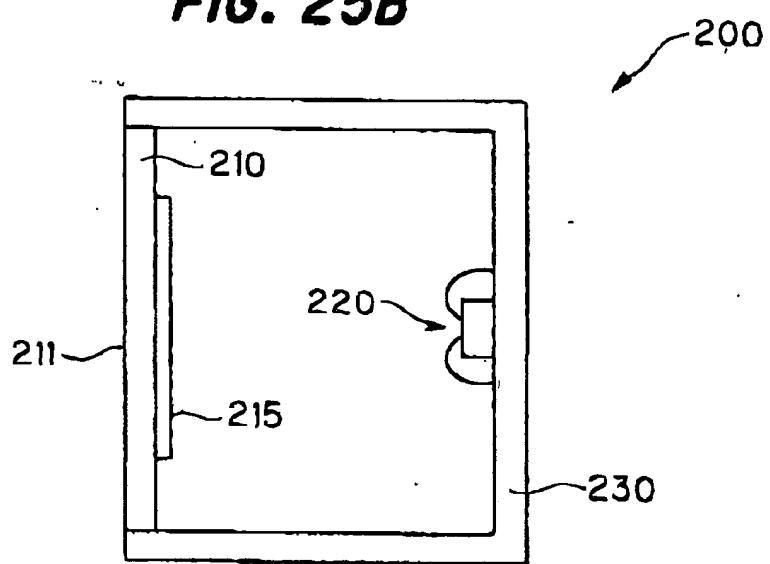


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FIG. 24



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FIG. 25A**FIG. 25B**

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FIG. 26

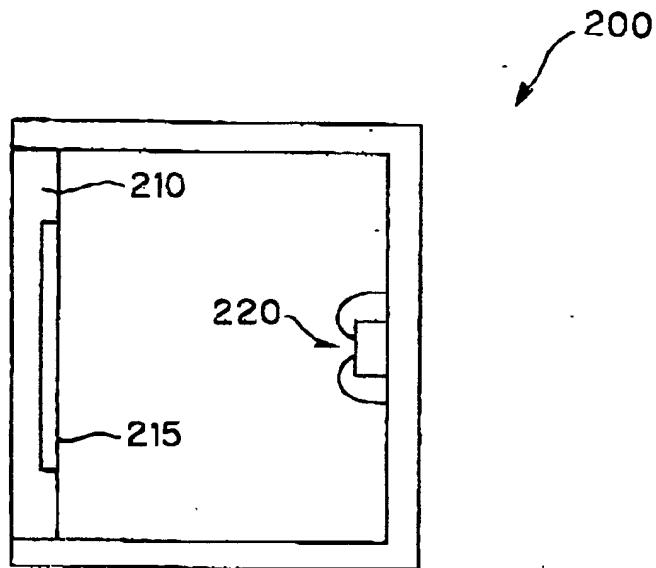
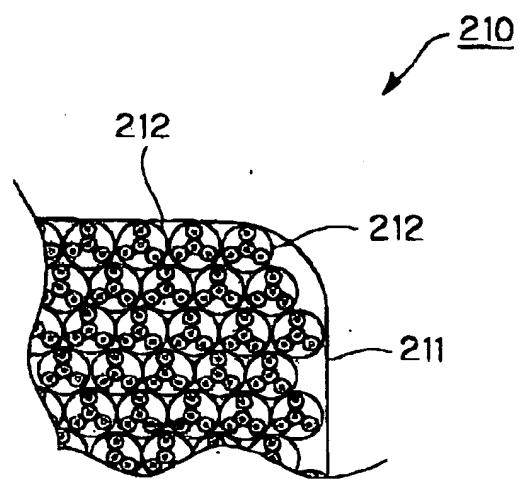
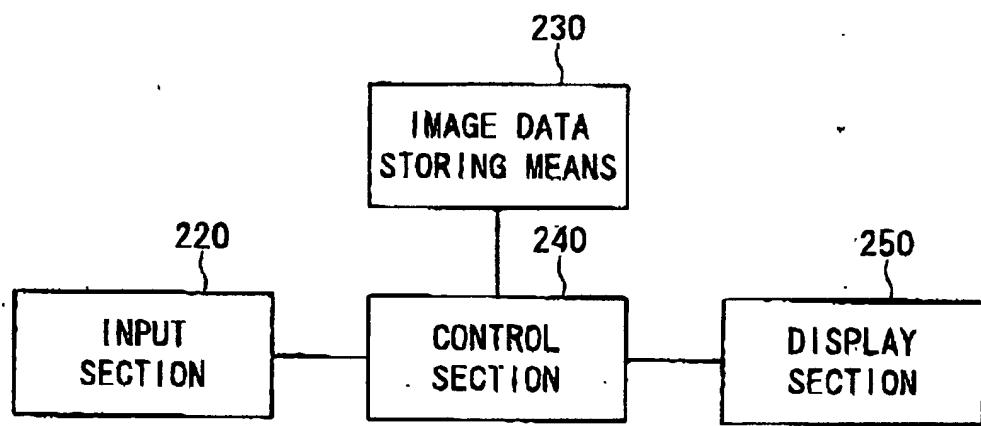


FIG. 27

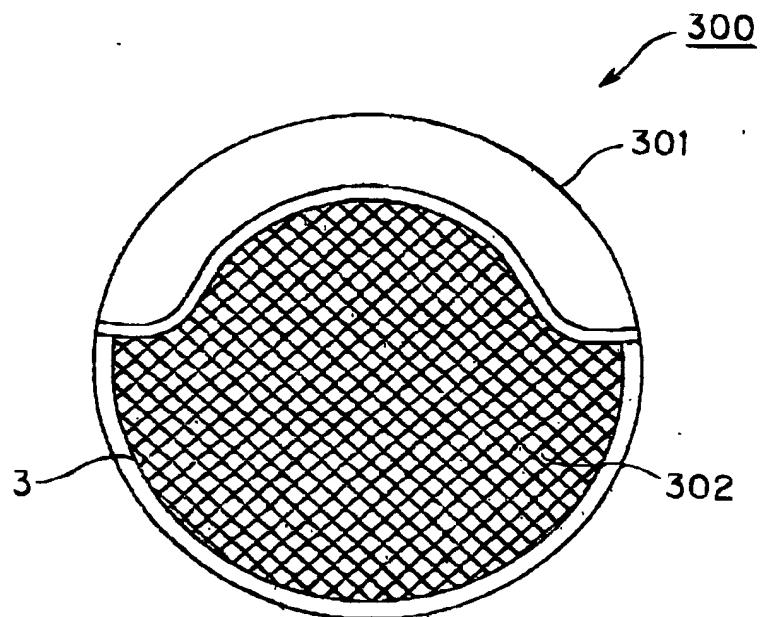


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FIG. 28

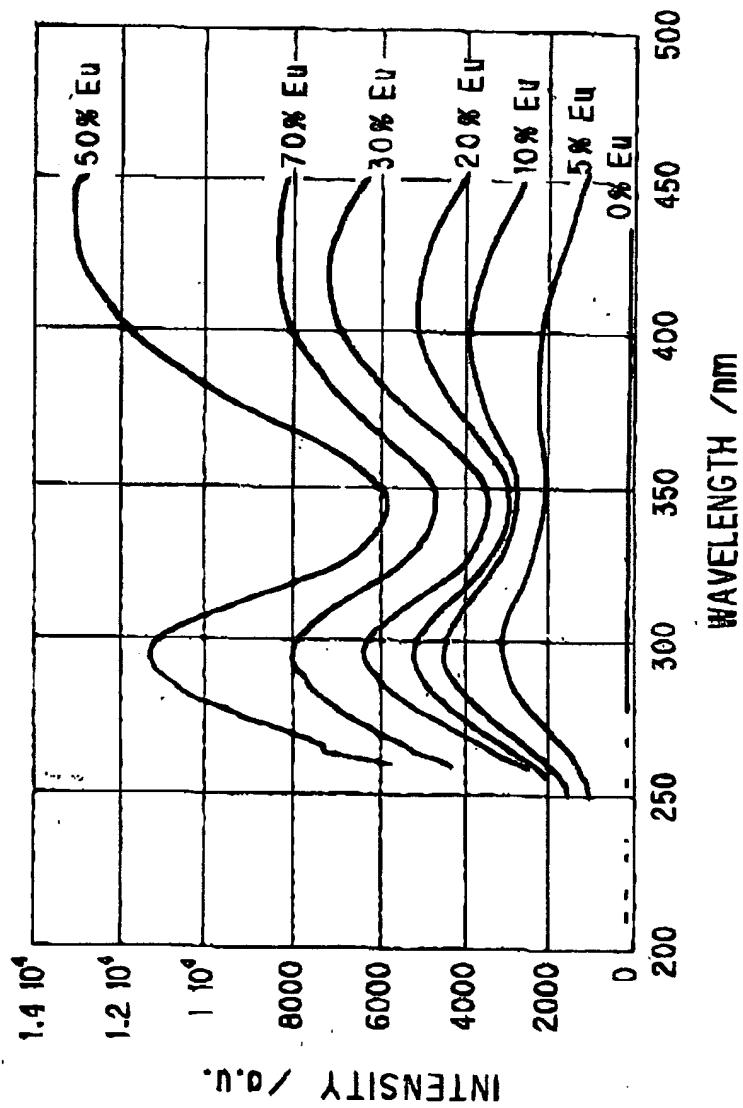


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FIG. 29

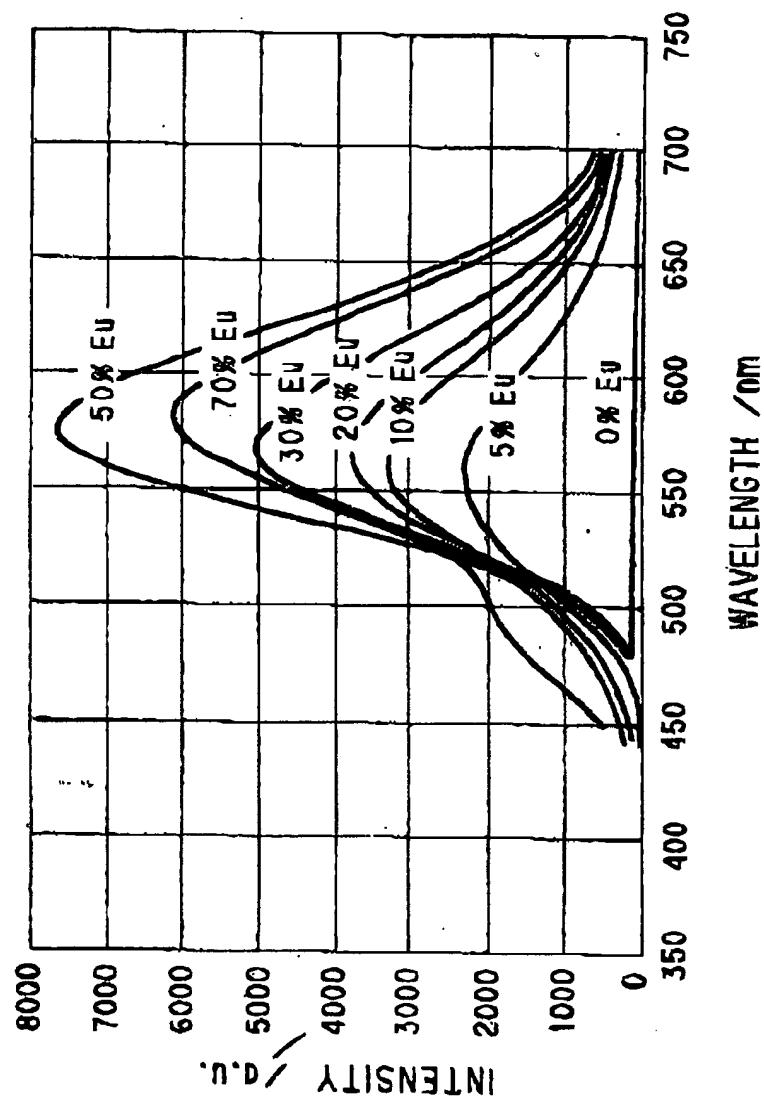
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FIG. 30

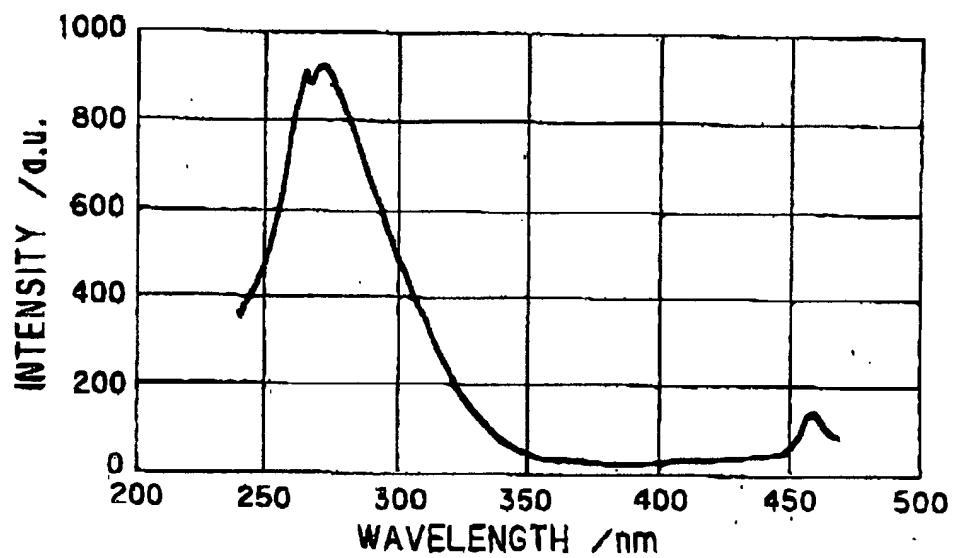
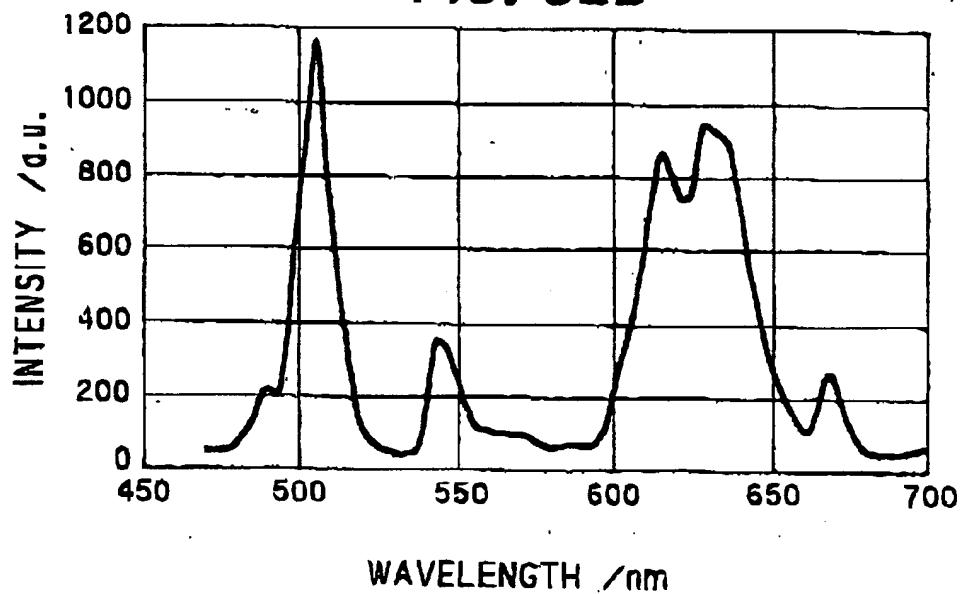


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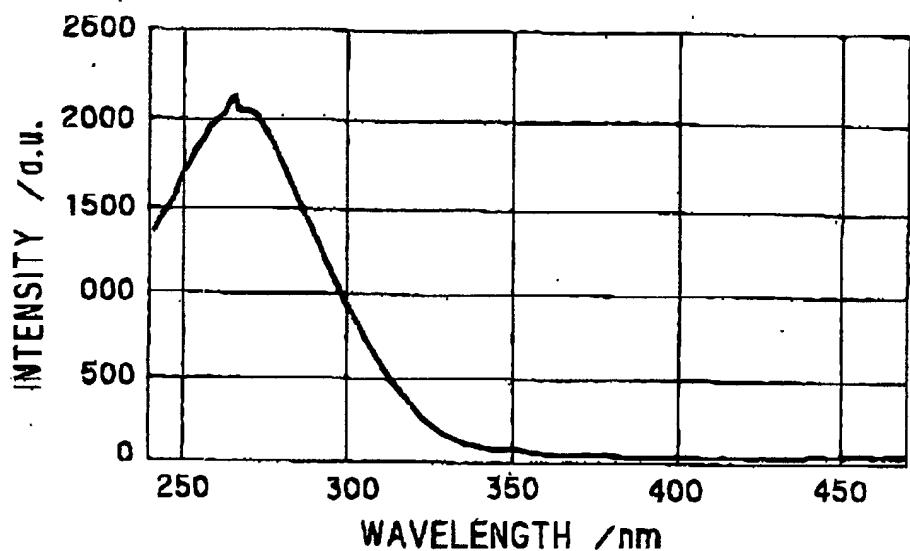
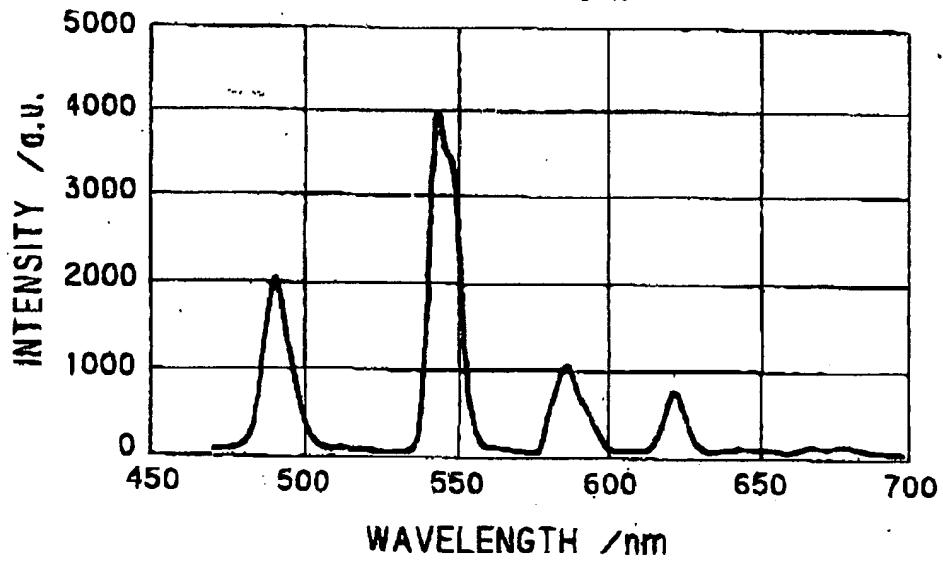
FIG. 31



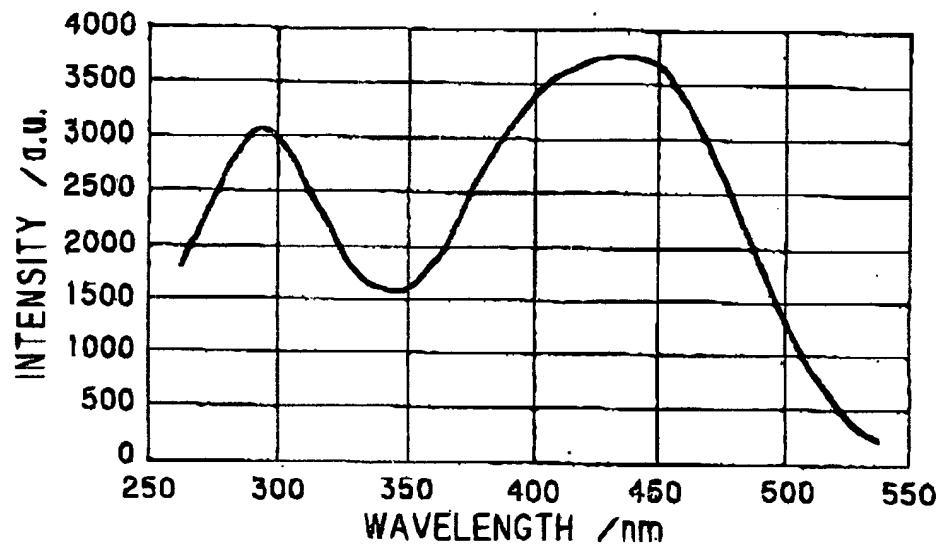
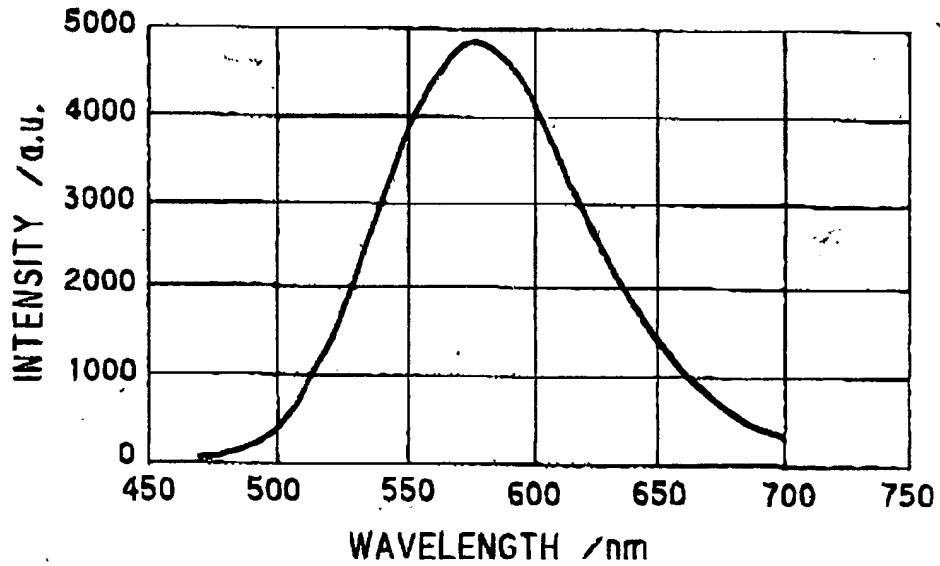
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FIG. 32A**FIG. 32B**

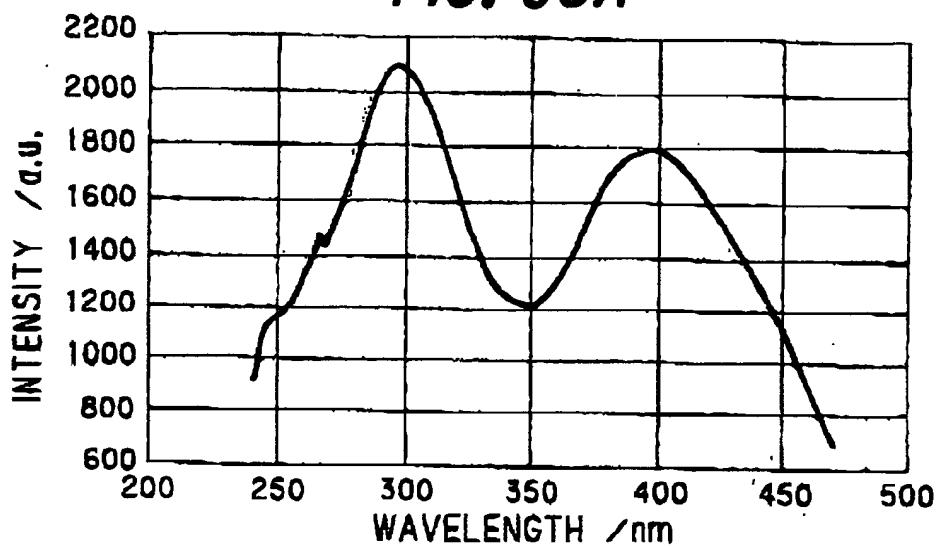
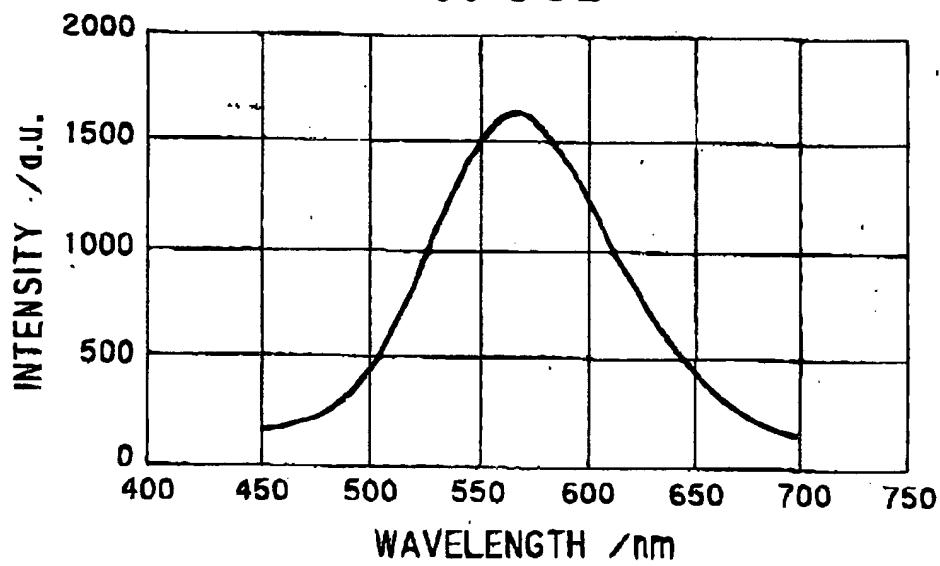
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FIG. 33A**FIG. 33B**

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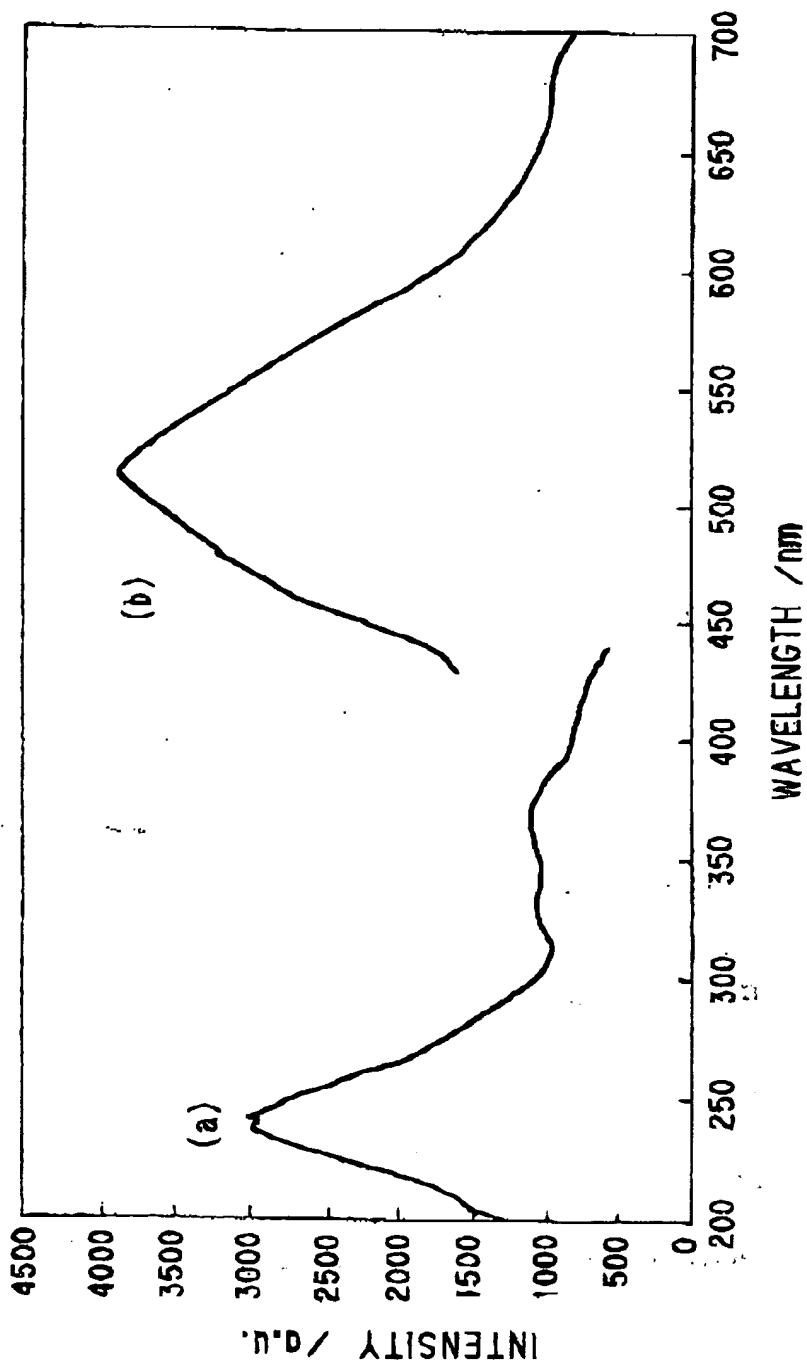
FIG. 34A**FIG. 34B**

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FIG. 35A**FIG. 35B**

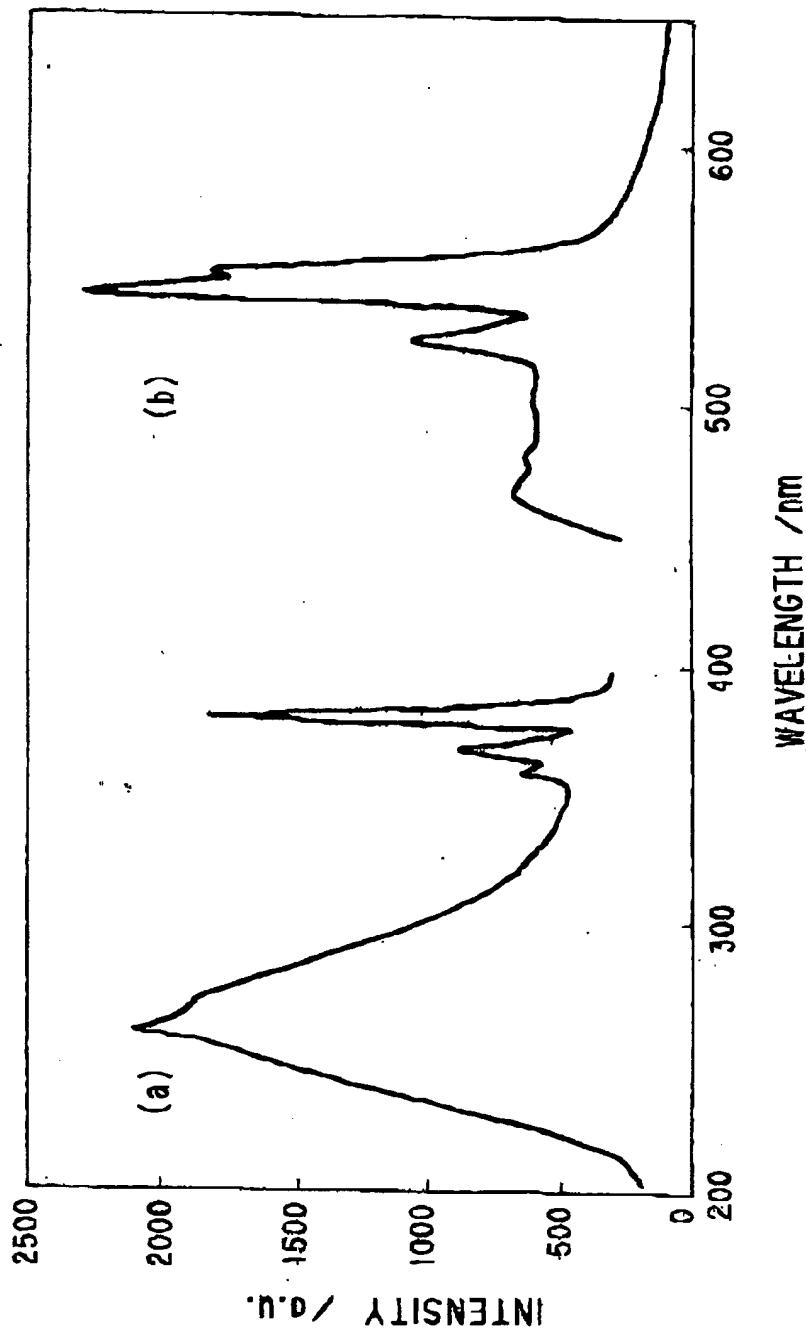
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FIG. 36



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FIG. 37



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FIG. 38

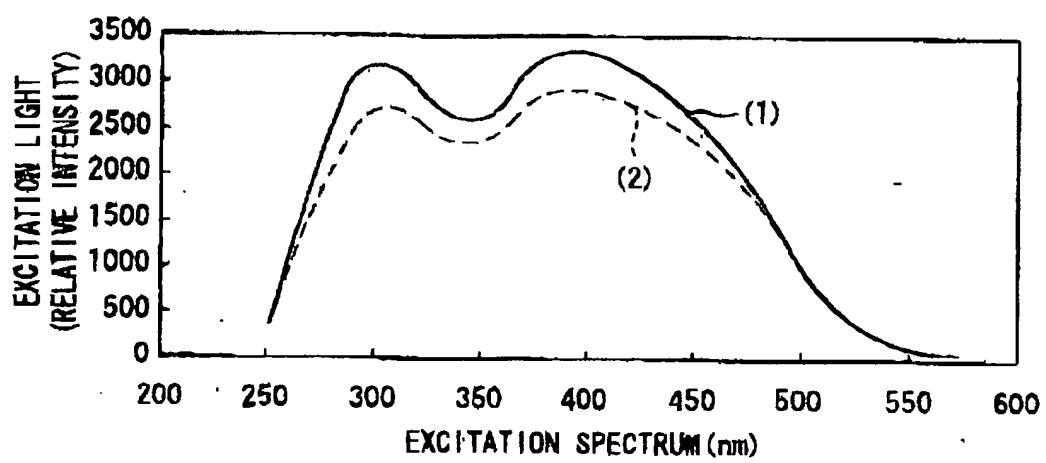
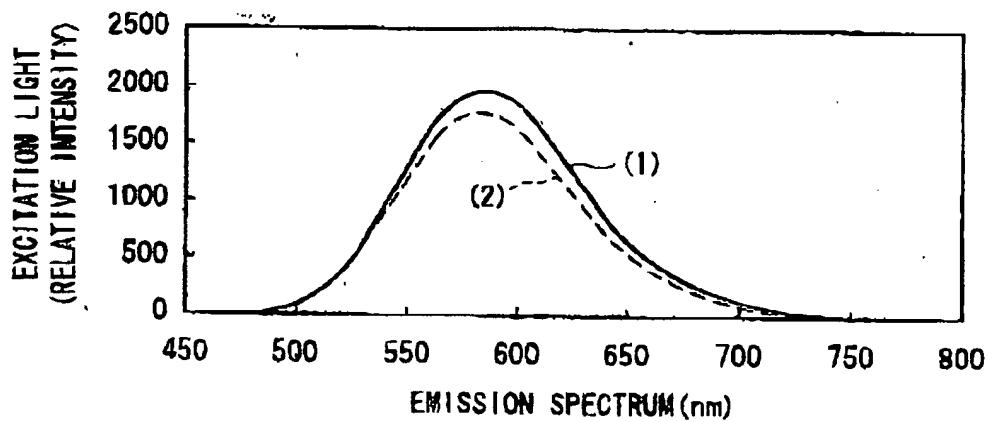
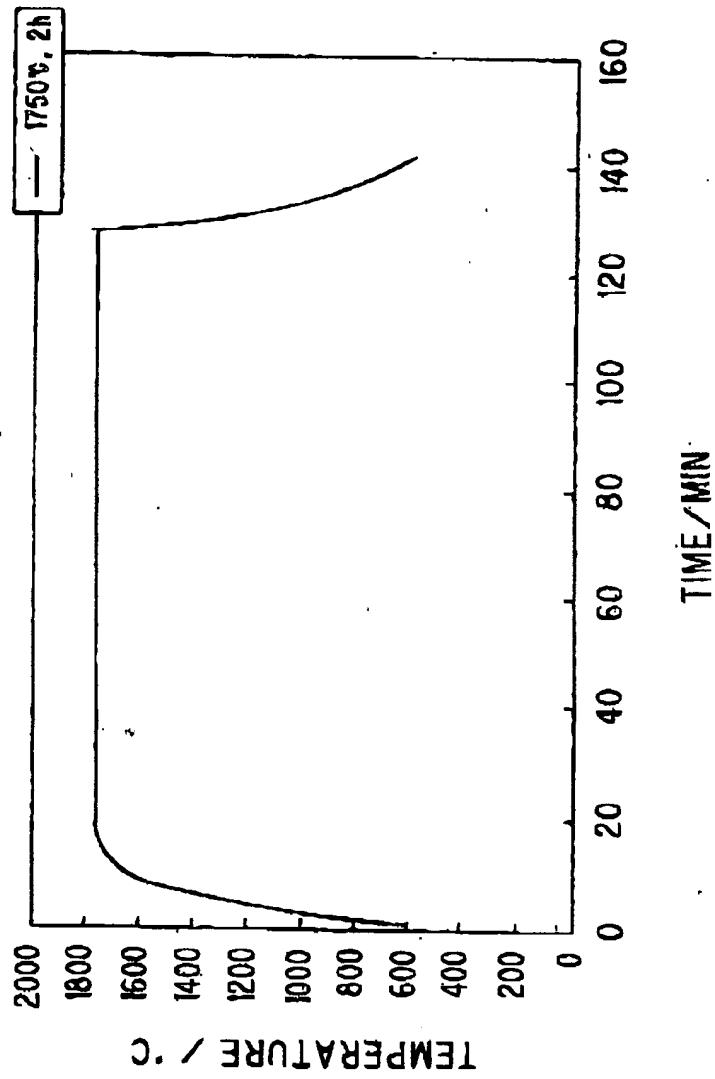


FIG. 39



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FIG. 40



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FIG. 41

	A	B	C	D	E	F	G	H	I	J
	3015	2010	1005	3030	2015	2010	1005	05025	05025	0505
CaO	11.6	8.3	3.1	9.7	7.9	10.3	6.1	2.2	3.26	3.2
SisMn	29.4	42.9	63.6	22.2	39.1	42.9	63.6	79.0	79.0	75.9
AlN	52.9	42.9	27.3	55.6	44.6	42.9	27.3	15.8	15.8	17.2
Al ₂ O ₃	0	0	0	5.6	2.4	0	0	0	0	1.72
Eu ₂ O ₃	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.0	1.0
Eu/Ca	0.51	0.72	1.9	0.62	0.76	0.27	0.49	1.4	0.61	0.63
Eu%	34	42	66	38	43	21	33	57	38	39

	K	L	M	N
	3015	2613	2010	2010
CaO	15.7	14.5	12.3	11.9
SisMn	29.4	34.2	42.9	42.9
AlN	52.9	49.4	42.9	42.9
Al ₂ O ₃	0	0	0	0
Eu ₂ O ₃	1.0	1.0	1.0	1.2
Eu/Ca	0.13	0.14	0.16	0.20
Eu%	11	12	14	17

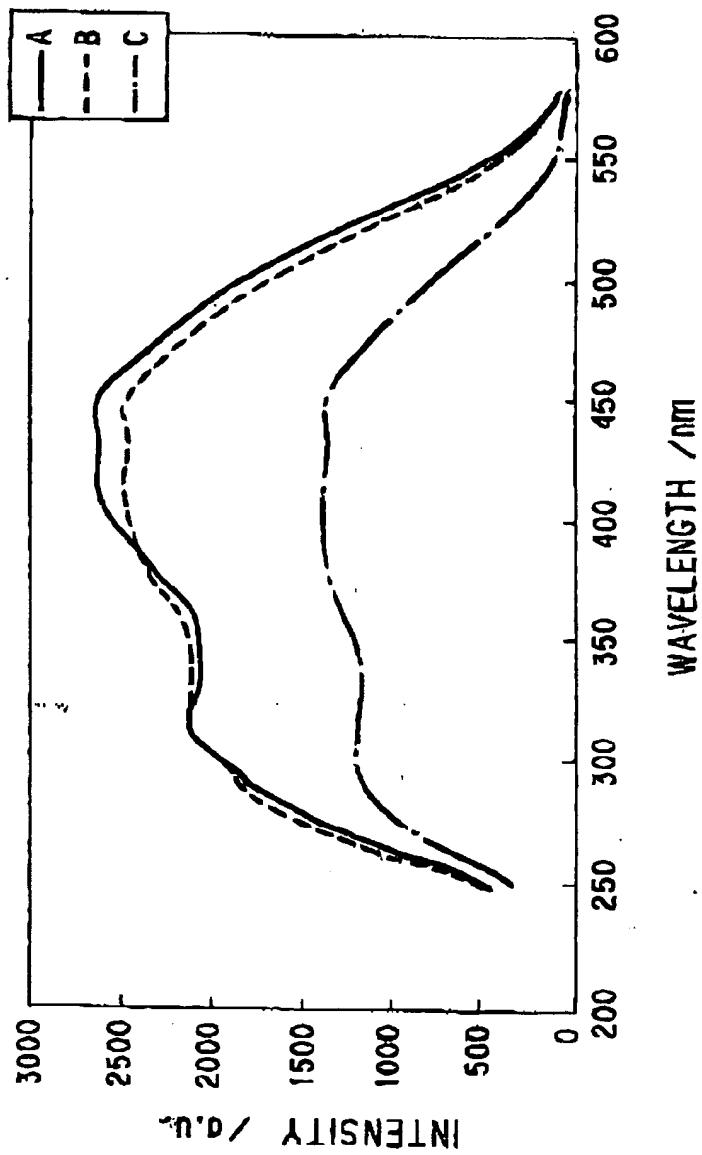
FIG. 42**34/49**

	A	B	C	D	E	F	G	H	I	J
■	3015	2010	1005	3030	2015	2010	1005	05025	05025	0505
Ca	3.3	2.0	0.6	2.9	1.9	2.7	1.2	0.4	0.5	0.5
Al	15.1	10.3	5.2	20.3	12.2	10.3	5.3	2.6	2.7	3.5
Si	25.2	30.8	36.6	20.2	28.9	30.9	36.7	39.7	39.8	38.9
Eu	1.7	1.4	1.2	1.8	1.5	0.7	0.6	0.5	0.3	0.3
O	5.9	4.1	2.3	10.8	5.9	3.8	2.0	1.1	1.1	1.9
N	46.7	51.4	54.1	43.9	49.5	51.5	54.2	55.6	55.7	54.8

	K	L	M	N
■	3015	2613	2010	2010
Ca	4.5	3.9	3.0	2.9
Al	15.2	13.3	10.3	10.3
Si	25.3	27.6	31.0	30.9
Eu	0.6	0.5	0.5	0.6
O	5.4	4.7	3.7	3.7
N	49.0	50.0	51.6	51.6

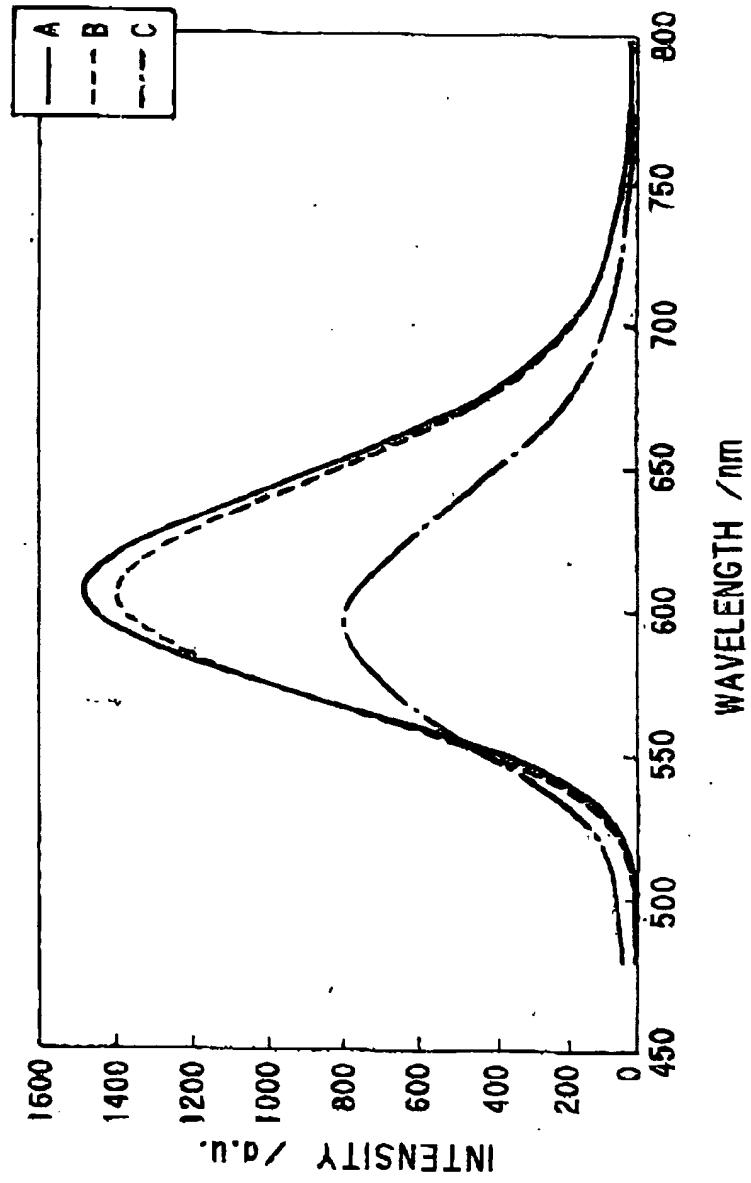
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FIG. 43



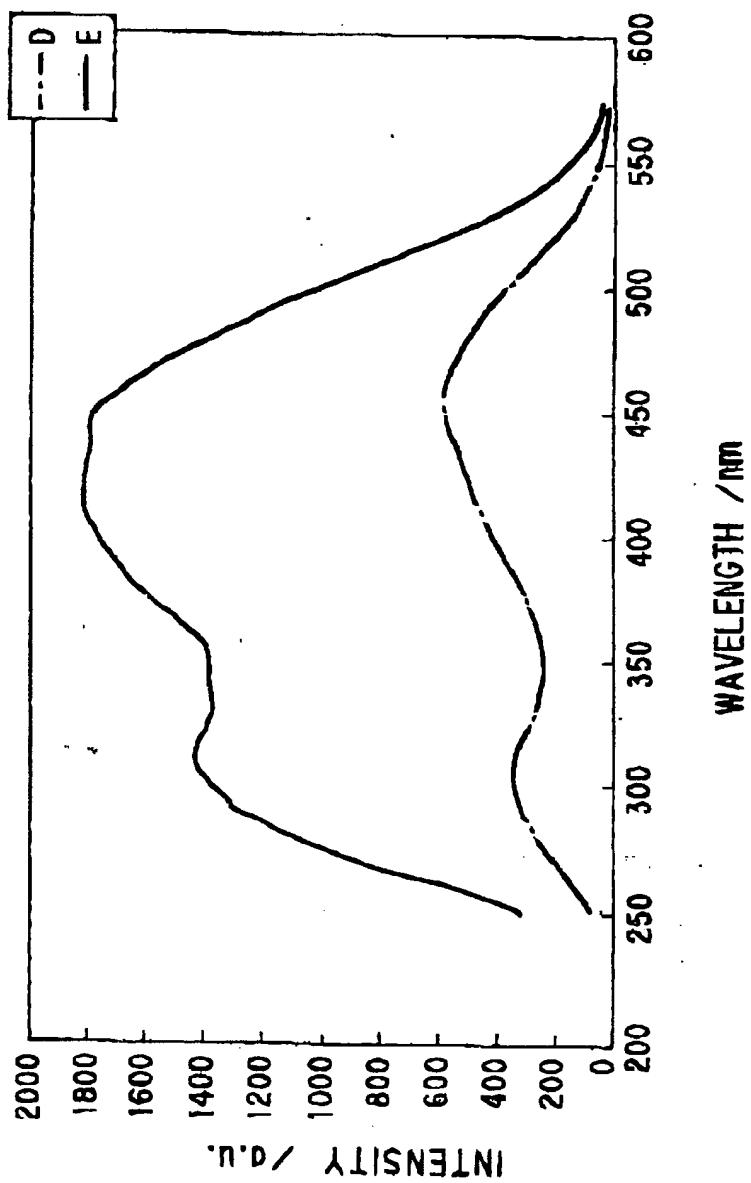
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FIG. 44



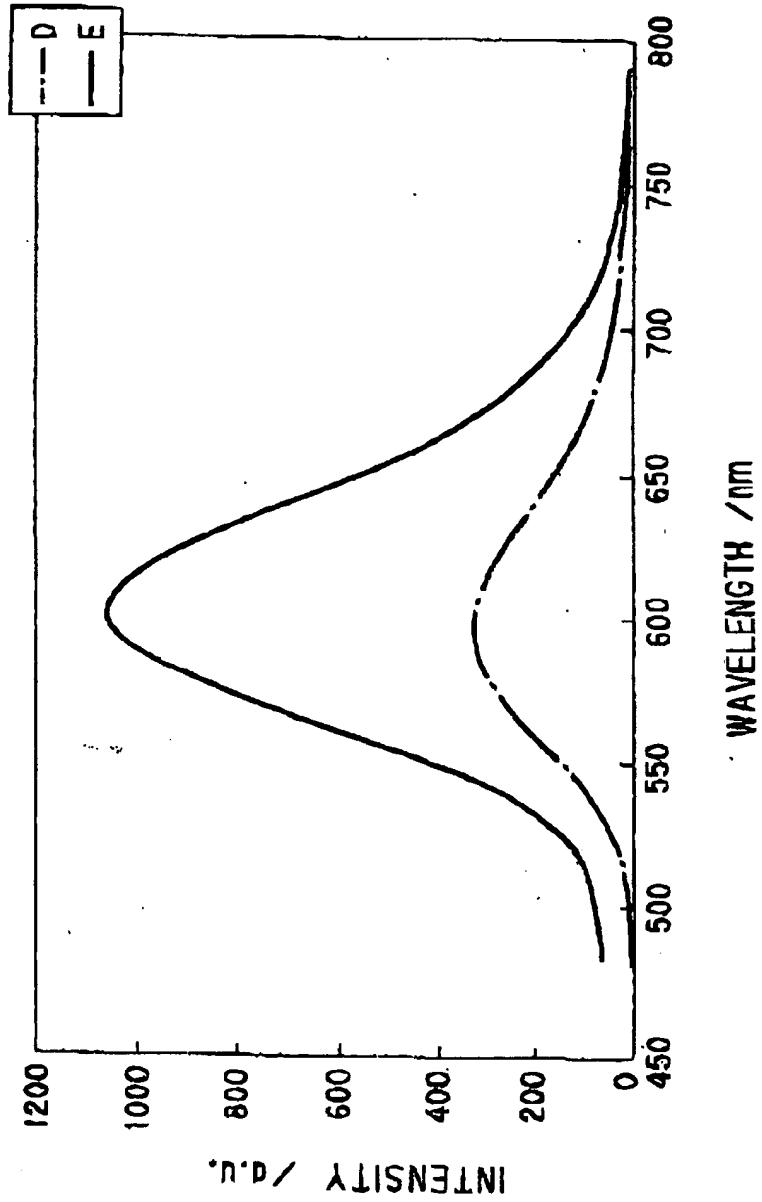
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FIG. 45



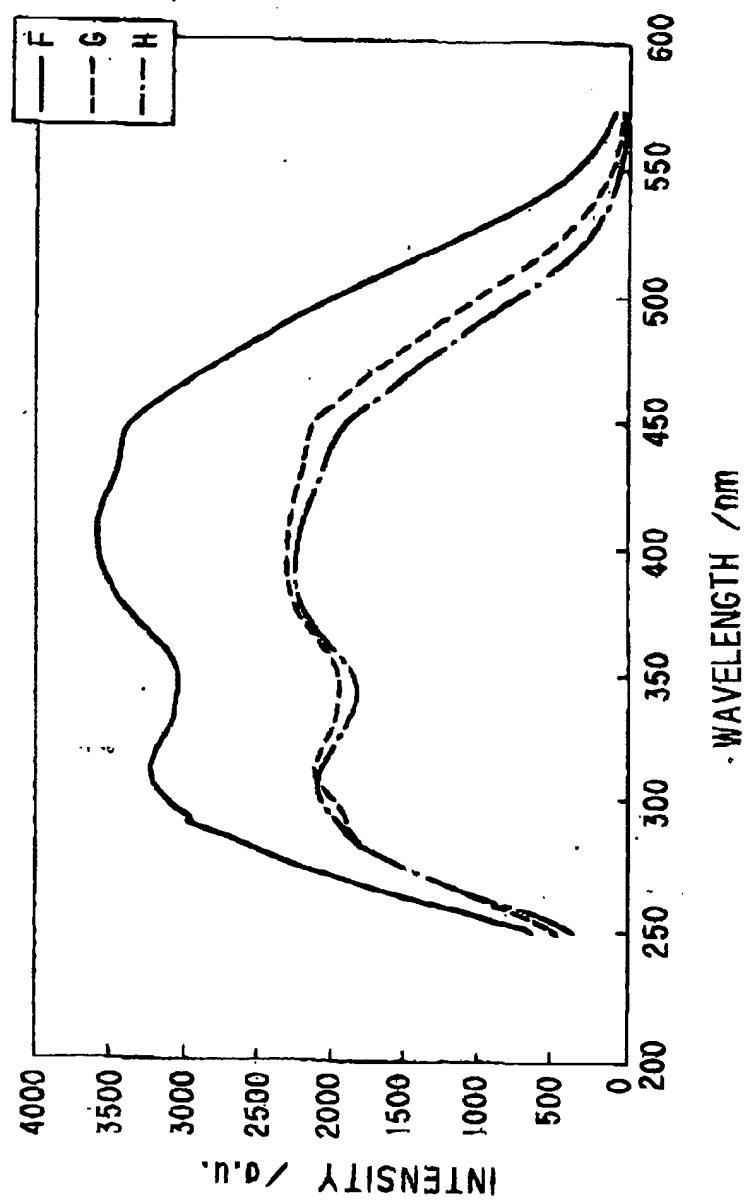
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FIG. 46



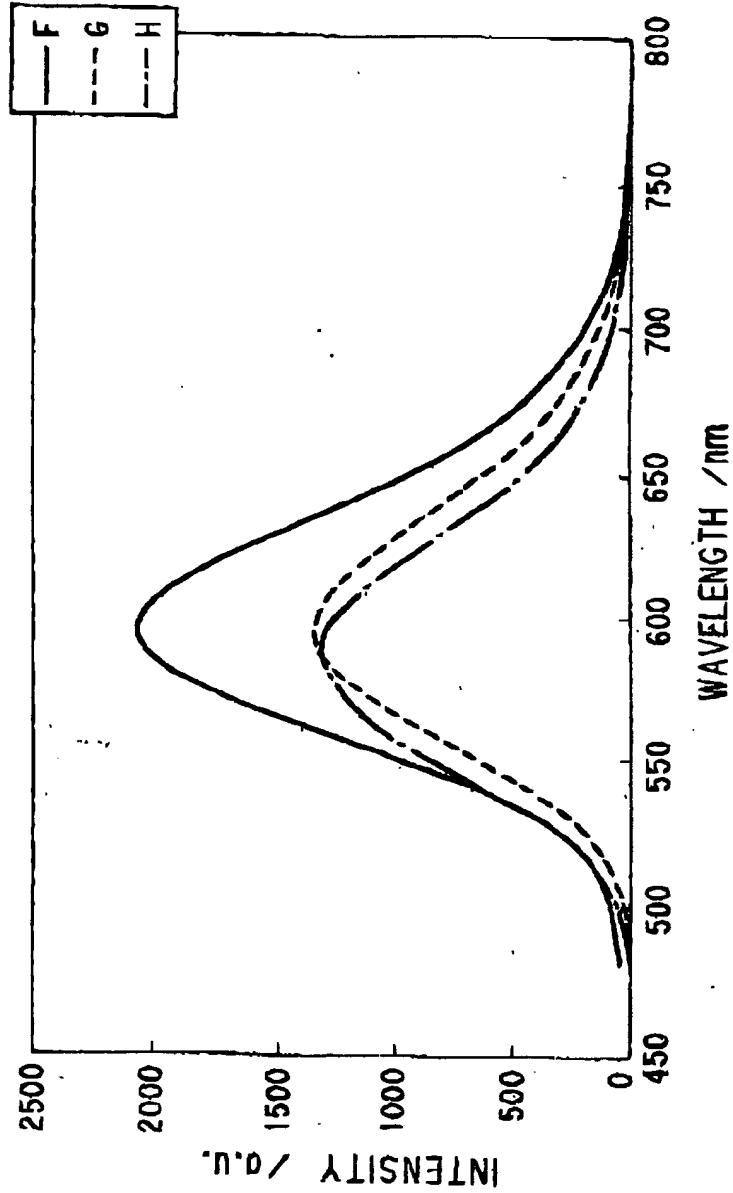
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FIG. 47



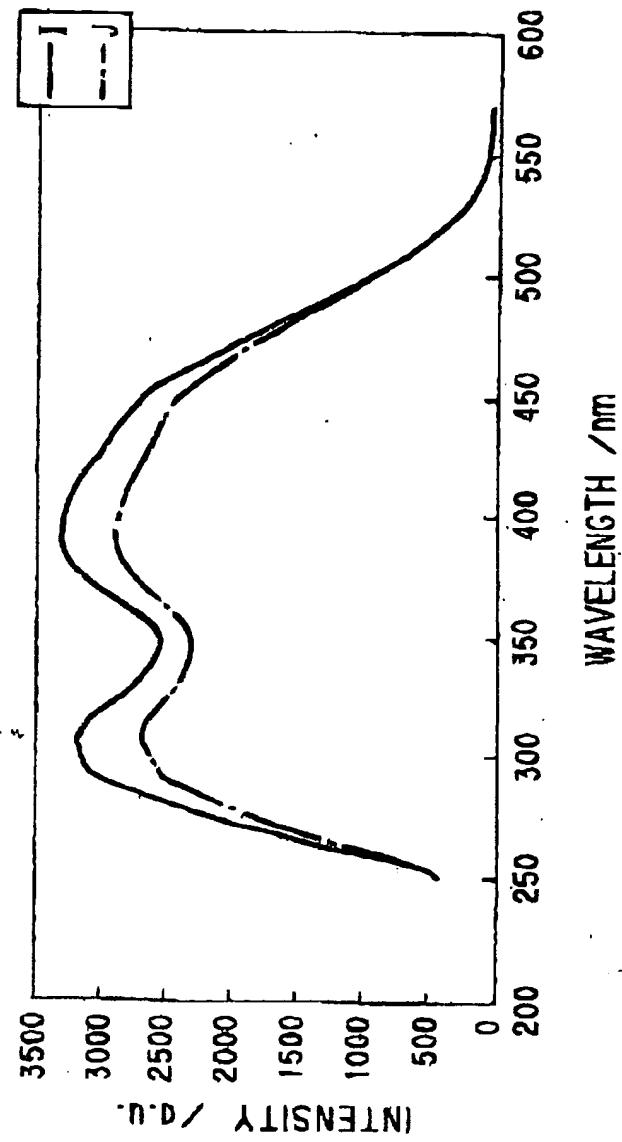
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FIG. 48



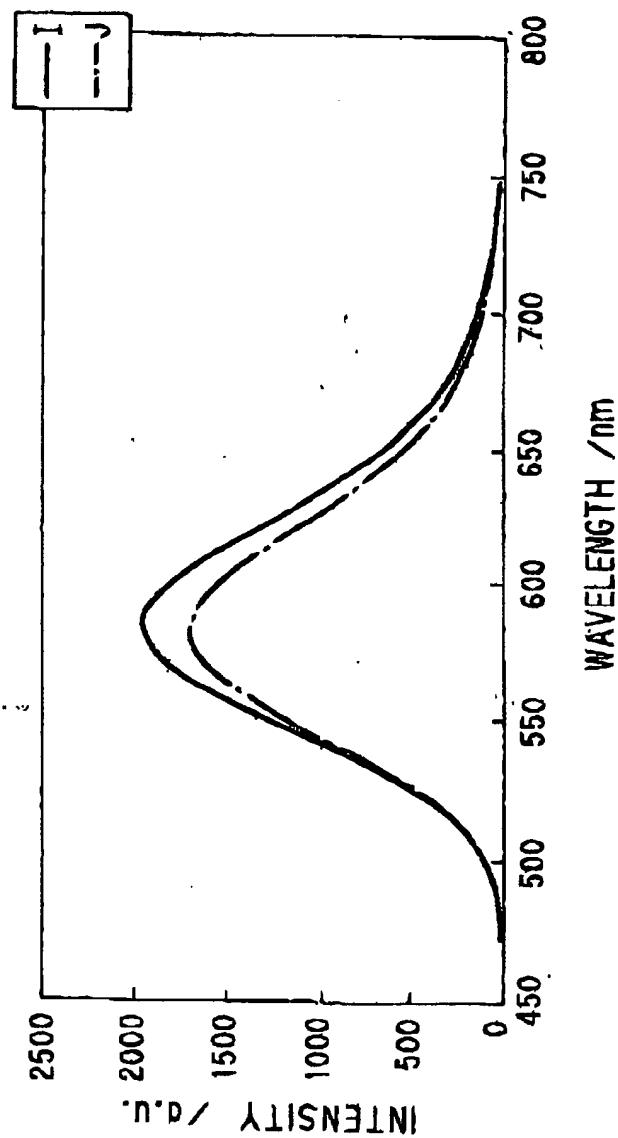
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FIG. 49



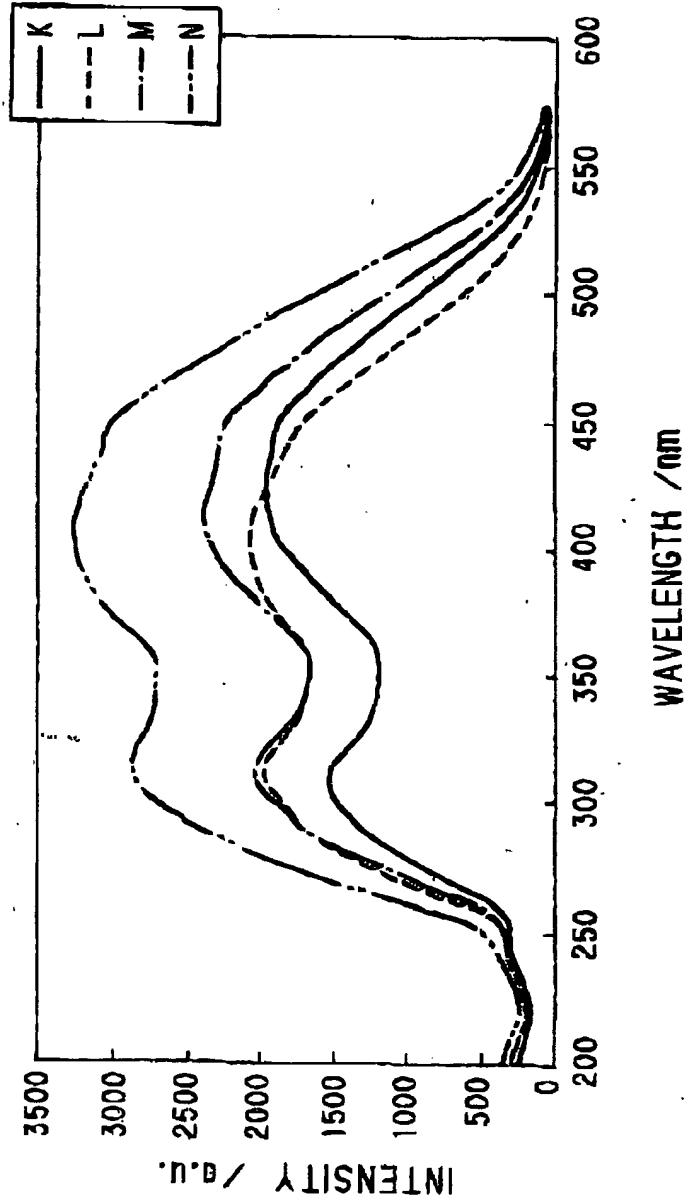
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FIG. 50



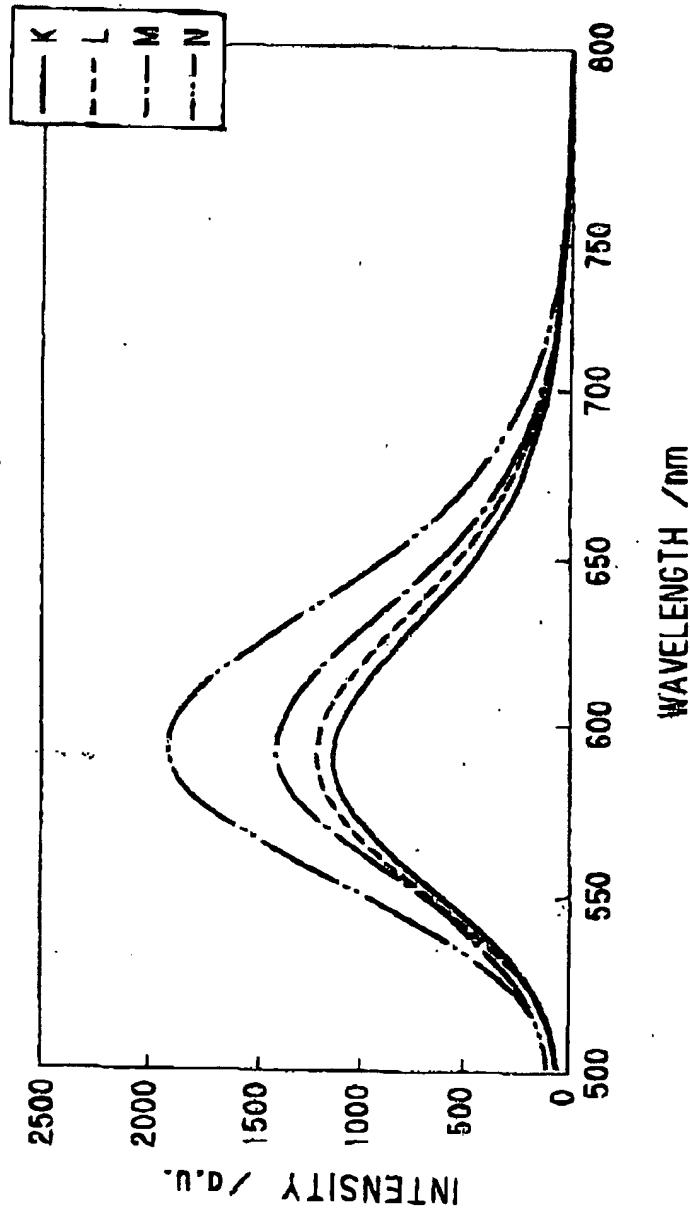
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FIG. 51



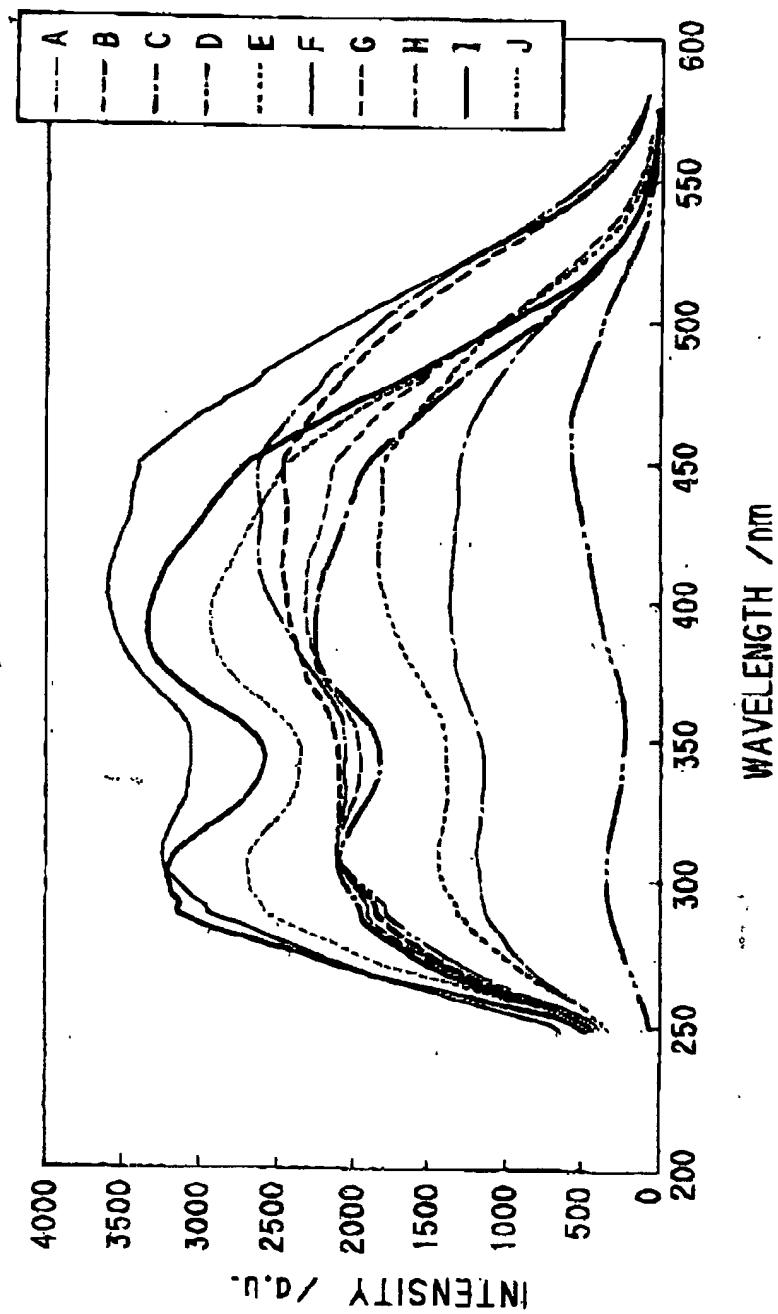
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FIG. 52



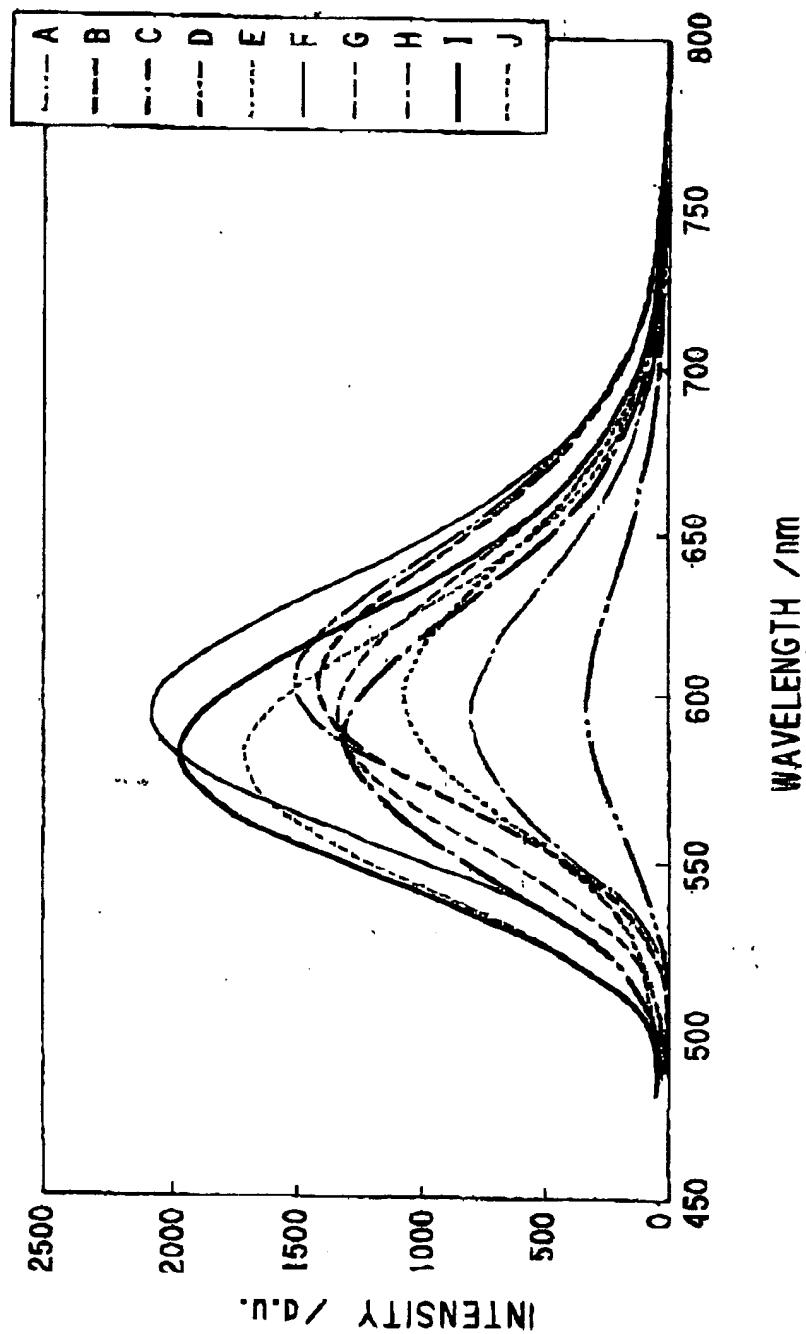
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FIG. 53



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FIG. 54



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FIG. 55A

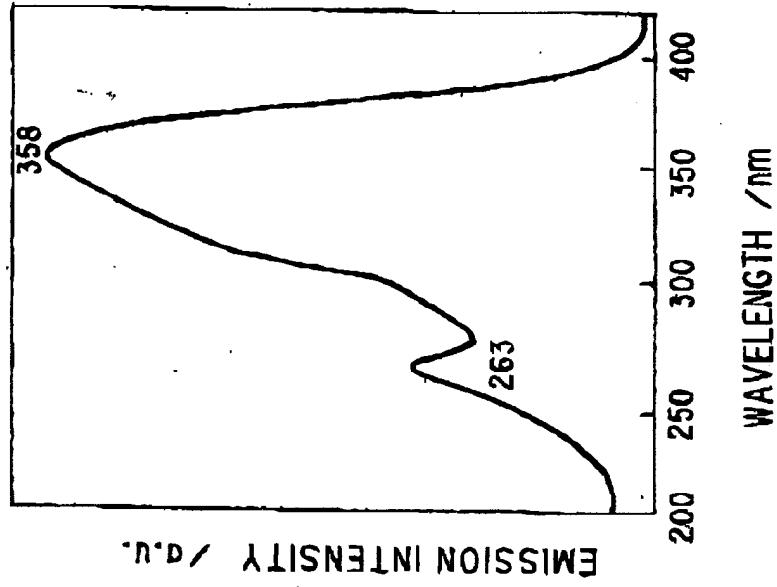
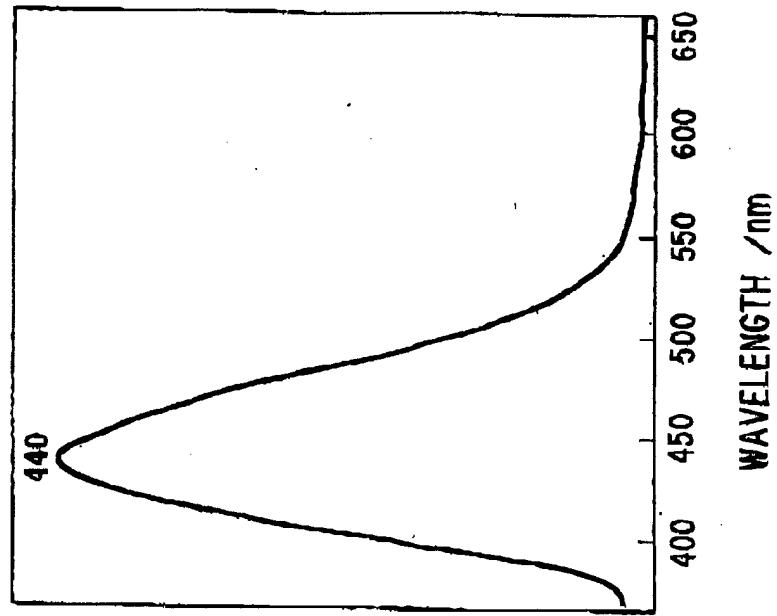
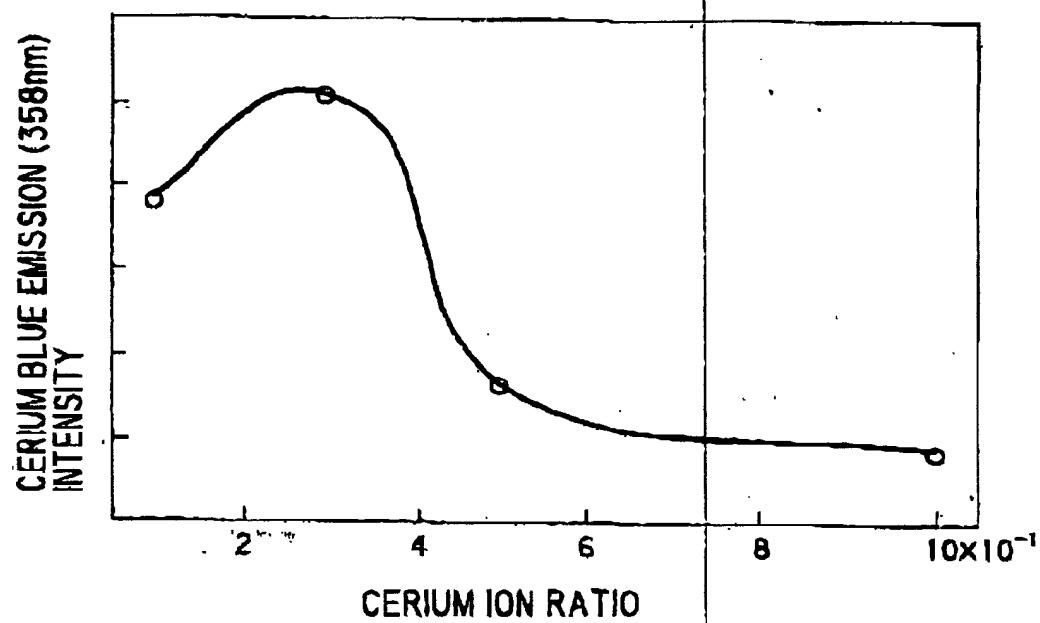


FIG. 55B



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FIG. 56



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FIG. 57

